



Digitized by the Internet Archive
in 2014

<https://archive.org/details/b19974760M2650>



REGISTERED AS A NEWSPAPER

TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 Words)

PUBLISHED WEEKLY AT 42 CANNON STREET, LONDON, E.C.4.

SUBSCRIPTION (WITH
DIARY) 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2541.

OCTOBER 20, 1928.

Vol. CIX.

Meggeson's newest product
VITAMIN MALTED TOFFEE

In decorated tins, 5/- per doz. nett.

RICH IN VITAMIN B.
A DELICIOUS AND APPETISING SWEETMEAT
IDEAL FOR SALE BY CHEMISTS.

Experience
DOES Count

MEGGESON & CO., LTD. BERMONDSEY, LONDON, S.E.16 *Established
over 130 years*

A NEW REMEDY
for the treatment of
CHRONIC ARTHRITIS
ARTHRYTIN

(Registered)

(AMMONIUM ORTHO-IODOXY BENZOATE)

MAY & BAKER, LTD.
BATTERSEA - LONDON, S.W.11

SALICYLIC ACID. B.P.



For more than 60 years
we have enjoyed a reputation
for manufacturing Chemicals
of Quality.

Here is yet another "Graesanto"
product, which we offer with
pride in having produced
such a unique, bold crystal
form of sheer beauty and
highest purity.

Appearance
reflects
Quality

The
GRAESSER-MONSANTO
CHEMICAL WORKS
LIMITED
Ruabon N. Wales.

Sales Offices:
King William Street House
Arthur Street
London, E.C.4.

CHESTNUTS

THE SALES OF
THESE LOZENGES
ARE INCREASING DAILY

WHY?

BECAUSE THE PUBLIC KNOW—

- (i) THAT CHESTNUTS IS ANOTHER NAME FOR QUALITY:
- (ii) THAT CHESTNUTS REALLY STOP A COLD:
- (iii) THAT CHESTNUTS REALLY EASE THE CHEST:

AND BECAUSE PHARMACISTS KNOW
WHAT THE PUBLIC WANT!

PRICES →	14 lbs.	-	-	1/11	per lb.	AMPLE SHOW MATTER WITH EACH ORDER.
	28	„	-	1/10	„	
	56	„	-	1/9	„	
	112	„	-	1/8	„	

ARTHUR H. COX & CO. LTD
Manufacturing Chemists
BRIGHTON ENGLAND

Saville's

June

TO ENSURE
SUPPLIES —
PLACE YOUR ORDER
EARLY



No. 54. (Actual Size of Case $8\frac{3}{4}'' \times 5\frac{1}{8}''$)
THE "ALL-IN" BEAUTY COMBINATION
ITS OBVIOUS VALUE CREATES A BIG IMPRESSION
RETAIL Each 7/6 PRICE Each 5/-



No. 57. (Actual Size of Case $4\frac{3}{4}'' \times 2\frac{1}{2}''$)
HANDY SIZE—HANDY PRICE
RETAIL Each 2/6 PRICE Each 1/8



No. 56. (Actual Size of Case $6'' \times 4\frac{1}{4}''$)
"FOR THE CONNOISSEUR"
STRONG HAND-MADE CASE DOMED LID
RETAIL Each 10/6 PRICE Each 7/-

Telegrams :
"PERFUMERY,"
WATFORD.

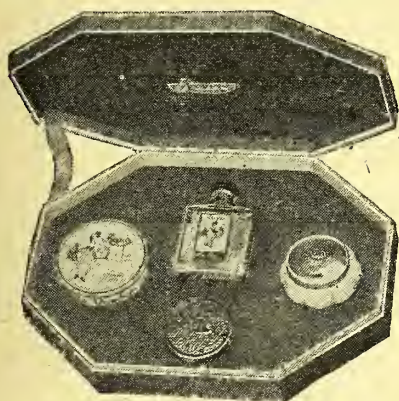
**SAVILLE PERFUMERY
LIMITED**

EXPORT.—ALL ENQUIRIES FOR SHIPMENTS OVERSEAS TO BE ADDRESSED TO OUR SO

XMAS COFFRETS



No. 52. (Actual Size of Case $7\frac{1}{8}'' \times 3\frac{7}{8}''$)
 THE POPULAR "BIG THREE"
 AN ESTABLISHED FAVOURITE
 RETAIL Each 3/- PRICE Each 2/-



No. 55. (Actual Size of Case $8\frac{1}{4}'' \times 6\frac{1}{8}''$)
 A HAPPY COMBINATION
 CHARMINGLY ARRANGED
 RETAIL Each 6/- PRICE Each 4/-

TO ENSURE
 SUPPLIES —
 PLACE YOUR ORDER
 EARLY



No. 53. (Actual Size of Case $9\frac{1}{4}'' \times 6\frac{1}{2}''$)
 SOAP AND PERFUME
 "ALWAYS ACCEPTABLE"
 RETAIL Each 7/- PRICE Each 4/8

**Junction Laboratories,
 WATFORD, HERTS.**

Telephone :
 WATFORD 1190.

EXPORT AGENTS—MESSRS. AYRTON, SAUNDERS & CO., LTD., HANOVER STREET, LIVERPOOL.

LUTON

Straw Hat Dyes



THIS standard "Chemists' Line," for which there is an all-the-year-round demand, may be recommended with confidence as a reliable Dye for many domestic and artistic purposes over and above its advertised use as a Straw Hat Dye. It dries quickly, is absolutely waterproof, and is supplied in Dull or Glossy Series as desired.

Made in the following Colours

Each bottle complete in carton with Brush and full instructions—Black, Poppy, Navy Blue, Primrose, Purple, Pink, Ruby, Heliotrope, Emerald Green, Dark Brown, Old Rose, Jade Green, Nattier Blue, Nut Brown, Olive Green, Burnt Straw, Grey, Royal Purple, Royal Blue, Myrtle Green, Nigger Brown, Saxe Blue, Rust, Brown, Kingfisher Blue, Mole, Almond Green, Flame, Silver Grey, Fuchsia, Royal Mail Red, Golden Brown, etc. Any other shade can be matched or supplied.

LARGE BOTTLES:

Price 12/- per dozen

Retail P.A.T.A. - 1/4 per bottle

Write for special Jubilee Terms for Luton Straw Hat Dyes and other Whitaker Products.

IMPORTANT NOTICE TO EXPORT HOUSES AND OVERSEAS BUYERS!

In addition to the well-known Series for the Home Trade, Luton Straw Hat Dyes are made in a special **NON-INFLAMMABLE SERIES** for Export in both Dull and Glossy Series.

Full particulars of this Series and Special Export Prices and Terms for Luton Straw Hat Dyes and Auroral Cold Water Dyes will be sent on receipt of application to—

WHITAKER & CO., Dye Specialists, KENDAL, Eng.

Telegrams: "Dulette, Kendal."

Established 1878.

Telephone: 214.

London Office
and Showrooms:

16-18

BEAK

STREET, REGENT STREET, W.I.

Telephone:
Regent 3825.

INDEX TO ADVERTISERS

Acco (Munyon's Home Remedies) .. xiv	Cooper Laboratory (Tablets, &c.)	Gough, Kidston & Co. (Petroleum
Agfa, L. & Co. (Photographic Chemicals) 38	Leader Page	Jelly, &c.) xxx
Allen, R. H., & Co. (Capsoid Thermal	Cooper, Son & Co., Ltd. (Cachets) .. xx	Gower, John (Books) Col. Supp.
Socks, &c.) xiv-xxxii	Corfield, Ltd. (Hot Water Bottles) .. 37	Graesser-Monsanto Chemical Works,
American Hard Rubber Co. (Britain),	Corrugated Packing Materials Co.,	Ltd. (Salicylic Acid) Cover
Ltd. (Ace Combs) 30	Ltd. (Corrugated Paper Boxes, &c.) 37	Grout & Co., Ltd. (Crêpe Bandages)
Apex Sunray, Ltd. (Sunray Lamps) .. 36	Cox, Arthur H., & Co., Ltd. (Chest-	xxxiv
Association of Manfg. Chemists, Ltd.	nuts) 1	Hackett, S. E. (Film Overstocks)
Cover-Col. Supp.	Cussons, Sons & Co., Ltd. (Toilet	Col. Supp.
Ayrton, Saunders & Co., Ltd. (Whole-	Specialities) 23	Hall, Forster & Co., Ltd. (Vapouriers)
sale Druggists) 15	Dalmás, A. de St., & Co., Ltd.	xxxiv
Baiss Bros. & Co., Ltd. (Emulsions,	(Surgical Dressings, &c.) xxxv	Haller & Phillips, Ltd. (Glycerine) .. ii
&c.) viii	Dearborn (1923), Ltd. (Toilet Preps.) 24	Hampshire, F. W., & Co., Ltd.
Bandoeng Quinine Factories vii	Debacq & Harrop (Toilet Preps.) .. 28	(Snowfire Tablet) xx
Beecham Pills, Ltd. (Beechams Pills,	De, S. N. (Indian Drugs) vi	Harkness, Beaumont & Co. (Disin-
&c.) xxii	Dee Oil Co., Ltd. (Petroleum Jelly) xxix	fectant) xiv
Beetham, M., & Son (La-rola, &c.) .. 22	Dick, W. B., & Co., Ltd. (Liquid	Harper, C. W. (Honey, &c.) xii
Bell, John, Hills & Lucas, Ltd.	Paraffin) xxx	Haskins (Shopfittings, &c.) 18
(Pharm. Preps.) 39	Dickson, R., & Co. (Besorbon) xii	Henry, T. & W. (Calcined Magnesia) xiv
Bengué & Co., Ltd. (Bonus Offer) .. viii	Dudley & Co., Ltd. (Display Sets,	Hill, T. (Bottle Washing Machinery) 32
Berdoo & Fish (Valuers, &c.) Col. Supp.	&c.) 32-39	Hindes, Ltd. (Hair Brushes) 28
Berg, E., Ltd. (Shopfittings) Col. Supp.	Edme, Ltd. (Malt Extract, &c.) xviii	Hobson, Trimble & Co., Ltd. xxxv
Bertrands Odourless Pessaries, Non-	Essences & Synthetics, Ltd. (Ess.	Hollandsche Melksuikerfabriek vi
Greasy) xxxv	Oils) 22	Horner, L. A., & Sons (Drugs, &c.) .. v
Boehm, Fredk., Ltd. (Nulomoline) .. xii	Evans Sons Lescher & Webb, Ltd.	Hubbuck, T., & Son, Ltd. (Oxide of
Bourjois, A., et Cie (Representative	(Liverpool Virus) 13	Zinc) iii
Wanted) 27	Fairy Dyes, Ltd. (Home Dyes) 42	Iddon, V. H., Ltd. ("Fite-a-Germ "
Braun, H. W. (Chemical Products) .. vii	Fassett & Johnson, Ltd. (Phyllosan,	Vapouriser) xiv
British Aluminium Co., Ltd.	Mead's Plasters, Bemax) xiv-xxv-xxxiii	Iglodine Co., Ltd. (Iglodine) xx
(Aluminium Containers) 36	Fink, F., & Co. (Gums) 39	loco Rubber & Waterproofing Co.,
British Diamalt Co. (Extract of	Ford, Shapland & Co., Ltd. (Print-	Ltd. (Rubber Sponges) 8
Malt) xxiv	ing) xxvi	Irving's Yeast Vite, Ltd. x
Brooks & Warburton, Ltd. (Foreign	Fox, Francis F., & Co., Ltd. (Oils) xxix	Jackson, Ernest, & Co., Ltd. (Gloss-
Proprietaries) vi	Frankenberg, L. (Razor Blades) .. 26	ettes) 41
Burge, Warren & Ridgley, Ltd.	Franklin, J. G., & Son, Ltd.	Jeffreys, Miller & Co., Ltd. (Malt
(Surgical Rubber Goods) xxxv	(Soothers, &c.) xxxiv	Extract, &c.) xxii
Burkett, Sharp & Co., Ltd. (Chemicals) ii	Fulford, C. E., Ltd. (Peps) xvii	Johnson & Sons Mfg. Chemists, Ltd.
Burrough, J., Ltd. (Alcohol) Leader Page	Fuller, R. L., & Co., Ltd. (Quinine	(Galenicals, &c.) iii
Burroughs Wellcome & Co. (Photo	Salts) iv	Josephs, Percy R. E. (Shopfittings)
Exposure Calculator) 43	Galloway, P. H., Ltd. (Cough Syrup) xiii	Cover-Col. Supp.
Carnrick, G. W., Co. (Endocrine	Gambles, J. C., & Co., Ltd. (Cutex) .. 29	Josephs, Philip, & Sons (Shopfittings)
Products) xxxvi	Gardner, W., & Sons (Gloucester),	Col. Supp.
Carr & Co., Ltd. (Bath Rusk) xxiv	Ltd. (Machinery) 32	Kaliwerk Krügershall A.-G. (Epsom
Cartwright, W. B., Ltd. (Moorland	General Electric Co., Ltd. (Gecoray	Salts) vii
Tablets) 7	Lighting) 12	Kay Bros., Ltd. (Almanacks) 5
Cephos, Ltd. (Headache Remedy) .. xii	George, Ernest J. (Valuer, &c.) Col. Supp.	Kerfoot, T., & Co., Ltd. (Throat Pas-
Christy, T., & Co. (Grips Pastilles,	Gilmont Products, Ltd. (New Mix	tilles) 17
Pyshan Points Tea) 39-xv	Tooth Paste) 9	King, G., & Co., Ltd. (Foods) 39
Cook, Geo. (Shopfittings) 34	Glass Products, Ltd. (Bottles, &c.) 34	[Continued overleaf.]
	Gollin & Co. Pty., Ltd. ("Aspro") xxi	

Free Almanacks once again !

A New Line KAYLOID Brand Compound Linseed Tablets

Retail price - - - 9d.
Wholesale 6/- per counter
display carton of 1 doz. tins

In response to persistent requests, Kay's Almanacks and Medical Reference Books, so long a popular and successful feature of Kay's advertising, are this Winter being revived. With a handsome cover in colours, each Almanack becomes a permanent and much appreciated advertisement for the chemist whose name it bears. Chemists desirous of securing their supply (Free) should write immediately to—

"Sales Manager," KAY BROTHERS LTD., STOCKPORT

**Kay's Compound
Essence**
OF LINSEED, ANISEED, SENECA, SQUILL, TOLU, ETC.
Registered LINSEED COMPOUND Trade Mark

It pays
to push
KAY'S

INDEX—cont.

Lambert, L., & Co., Ltd. (Caramel)	Leader Page	Orridge & Co. (Valuers, &c.) .. Col. Supp.	Smith, J. M., & Co. (London), Ltd.
Lautier Fils, Ltd. (Ess. Oils)	20	Overbeck, O. (Rejuvenator)	(Disinfectants, &c.)
Leichner, L. (Toilet Preps.)	31	Paine & Co., Ltd. (Malt Extract) ..	Smith, T. & H., Ltd. (Chemicals) ..
Lennon, Ltd. (South African		Papier Poudre, Ltd. (Toilet Preps.)	South of England College
Agencies)	vi	Parke, Davis & Co. (Cod Liver Oil	Spencer Bros. (Puffs)
Lever Bros., Ltd. (Glycerine)	iv	Emulsion)	Stambois, L. J. (Chartus Blades, &c.)
Lewis, H. K., & Co., Ltd. (Books,		Pazo Co. (Pill Boxes)	Start, Leonard (Apology)
&c.)	38	Peck Bros. & Winch, Ltd. (Matté	Stern, H. C. (Geisha Toilet Paper) xxxii
Litto Laboratories, Ltd. (Hair Preps.)	22	Tea)	Sterns, Ltd. (Oils, Petroleum, &c.) xxix
Lorimer-Marshall, Ltd. (Pot Pourri)	33	Perfumeria Gal (London), Ltd.	Stokes, C. A., & Co., Ltd. (Ointments)
Macandrews & Forbes, Ltd. (Apollo		(Toilet Soap, &c.)	Leader Page
Liquorice)	iv	Perry & Hope, Ltd. (Phosphate of	Surgical Hosiery Co., Ltd.
Marsden, C. C. (Valuer, &c.) Col. Supp.		Soda)	Suttley & Silverlock, Ltd. (Printers)
Martin, Bob, Ltd. (Dog Medicines) ..	39	Pharmaceutical Lanoline Co.	Tatcho Tone Co. (Hair Preps.)
Matthews, D., & Sons (Shopfittings)		Phillips & Robson, Ltd. (Herboline	Templeton, J., & Co. (Klen-Grez)
Matthews Laboratories, Ltd. (Digi-		Ointment)	Thermogene Co., Ltd. (Medicated
talts)	Leader Page	Phillips, R. W., Ltd. ("Kissinga"	Wadding)
Maw, S. Son & Sons, Ltd.	10-11	Pine Baths)	Thompson, John (Wholesale Drug-
May & Baker, Ltd. (Arhythrin) ..	Cover	Pifco, Ltd. (Electric Lamps, &c.) ...	gists, 1921), Ltd. (Hot Water
Meade-King, Robinson & Co., Ltd.		Plainmar, Ltd. (Sandalwood Oil) ...	Bottles)
(Petroleum Jelly, &c.)	xxviii	Poth, Hille & Co. (Ceresine Wax) ...	Thornton & Ross, Ltd. (Olive Oil) ...
Meggeson & Co., Ltd. (Vitamin		Potter & Clarke, Ltd. (Wholesale	Tipper, B. C., & Son, Ltd.
Malted Toffee)	Cover	Druggists)	(Veterinary)
Menley & James, Ltd. (Neuro Phos-		Ransom, W., & Son, Ltd. (Extracts,	Tomlinson & Hayward, Ltd. (Dairy
phates)	xix	Tinctures, &c.)	Helps)
Midgley & Parkinson, Ltd. (Yeast		Rendell, W. J. (Quinine Pessaries) ..	Toogood, Wm., Ltd. (Hair Prepara-
Preps.)	xxiv	Reynolds & Branson, Ltd.	tions)
Millar, A., & Co., Ltd. (Orange Wine)	xxiv	Ridge's Food Co. (Infants' Food, &c.)	Tyrer, T., & Co., Ltd. (Bismuth Salts)
Milner & Coke, Ltd. (Lemskin) ..	38	Rigby Battcock, Ltd. (Toothbrushes)	Wagner, R. V. (Bottle Caps)
Mond Staffordshire Refining Co., Ltd.		Riley, J., & Sons, Ltd. (Hypo)	Walden, E. M., Ltd. (Surgical Ware,
(Monsol Prods.)	xi	Roberts' Patent Filling Machine Co.	&c.)
Muir, W. S., & Co., Ltd. (Transparent		Robinson & Sons, Ltd. (Boxes) ...	Walden, Walden & Co. (Toilet Preps.)
Paper)	xxvi	Roebuck's Advertising Service	Warrick Bros., Ltd. (Chemicals) ...
Murray, S., & Co., Ltd. (Vitreo		(Wanie Blades)	Warrington Chemical & Drug Co., Ltd.
Colloid Capping Solution)	34	Rowland, A., & Sons, Ltd. (Macassar	Watts, J. (Safety Razor Blade Shar-
Myosotis, Ltd. (Perfumery)	21	Oil)	pener)
Napp, H. R., Ltd. ("Normacol") Cover		Rudduck & Co. (Shopfittings) Col. Supp.	Webster, T., & Co., Ltd. (Disc
National Cash Register Co., Ltd. ...	33	Saville Perfumery, Ltd. (Perfumery)	Extractor)
National Chemical Holdings, Ltd.		Schering, Ltd. (Pharmaceutical	Westminster College of Pharmacy ...
(Appledoc)	xxviii	Specialities)	Wheeler & Huisking, Ltd. (Liquorice)
National Union of Drug & Chemical		Schutze, F., & Co., Ltd. (Compact	Whiffen & Sons, Ltd. (Chemicals) Cover
Workers)	Col. Supp.	Powder)	Whipman, P. (Italian Drugs, &c.) ...
Newbery, F., & Sons, Ltd. (Hot		Scott, Adolph, Ltd. (Toilet Re-	Whitaker & Co. (Hat Dyes, House-
Water Bottles)	xxxii	quisites)	hold Dyes)
Nilde (Paris) Agency, Ltd. (Toilet		Scruton, O., & Co. (Nurse Harvey's	Winchester Manfg. Co., Ltd.
Preps.)	26	Mixture)	("Wimaco" Surgical Goods) ...
Norwegian Cod Liver Oil	xxvii	Scurr, C. A. (Optical Tuition)	Wood Bros. Glass Co., Ltd. (Shop
Oppenheimer, Son & Co., Ltd. (Robo-		Shadeine Co. (Hair Dyes)	Bottles, &c.)
leine)	19	Sherborne, T., & Co., Ltd. (Surgical	Woolley, Jas., Sons & Co., Ltd.
		Appliances)	(Ballroom Floor Polish)
		Sherley, A. F., & Co. (1928), Ltd.	Yadil Products (1925), Ltd.
		(Dog and Cat Medicines)	Zeal, G. H., Ltd. (Clinicals) ...
		Sitora Refining Co., Ltd. (Liquid	Zimmermann, C., & Co. (Chem.), Ltd.
		Paraffin, &c.)	(Chemicals, &c.)

Jaytee's HOT WATER BOTTLES

Now is the time to place your Winter order for INDIA-RUBBER HOT WATER BOTTLES. **Give your order now and take delivery when required**—customers requiring their own name or trade mark on bottles will be well advised to order early, as it takes some time to get name plates and trade marks prepared.

You cannot do better than stock "JAYTEE'S" Bottles
Every Bottle is guaranteed—"Prices are Right"

Sizes, inches	10x6	10x8	12x8	12x10
Approx. weight, ozs.	10	11	12½	14
GREY	3/2	3/6	4/2	4/8 each
RED	3/8	4/2	4/7	5/3 each

Fitted with Patent Washer and Patent Neck.

Name and Address or Trade Marks free on orders for 3 doz. or over.
 Subject 5% discount.

GUARANTEE

"JAYTEE'S" HOT WATER BOTTLES are personally examined and tested under strict supervision as to the Quality of Rubber, Workmanship, etc., and we assure our patrons that with careful use in any climate, and storage under favourable conditions, these high-grade quality "Jaytee's" Hot Water Bottles are warranted to give entire satisfaction and will remain in a perfect state free from Manufacturers' faults for two years.

JOHN THOMPSON (Wholesale Druggists 1921) LTD.

27/35 DUKE STREET, LIVERPOOL

Telegraphic Address: "Drugs, Liverpool."

Telephones: Royal 1434 (5 lines).



Moorland sales still growing

a regular increase week after week

Their growth is rapid and constant

sales are always quick and profitable

They are absolutely dependable

a good product that never lets you down

They are always profitably sold

to a large and satisfied public

They make regular weekly profits

and Pharmacists know their value

They are very firmly established

as the best sellers of their kind

The showmatter clinches the sale

heaps of it with every order

Order some now—and keep busy. One doz. 4/6; One gross 51/-; Retail 7½d.

W. B. CARTWRIGHT LTD. RAWDON LEEDS.

"Victor" Rubber Sponges



MONEY saved is money made, and the economical reliable and hygienic Rubber Sponge is to-day increasingly superseding the costly natural sponge. Our "VICTOR" Rubber Sponge has for many years been acknowledged to be the ideal sponge, not only for toilet use, but also for washing down motor cars, saddlery and similar purposes.

Its special feature is the fine texture and smooth surface, a result achieved by special selection of the best quality durable rubber and our own methods of technical control and manufacture.

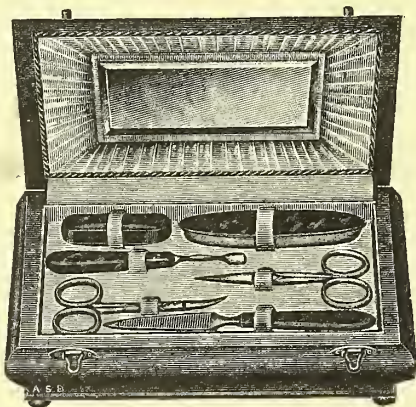
FOUR SIZES, OVAL AND ROUND.

Write for particulars, or order your requirements from your regular wholesaler.

We also specialise in:—

RUBBER SPONGE FLOORING, MATS, SHEETS, ETC.

The IOCO RUBBER & WATERPROOFING Co., Ltd.
Netherton Works, Anniesland, Glasgow, W.3.



ADOLPH SCOTT Ltd.

23 to 26 Great Hampton Street

... BIRMINGHAM

"THE HOUSE THAT GIVES YOU SERVICE."

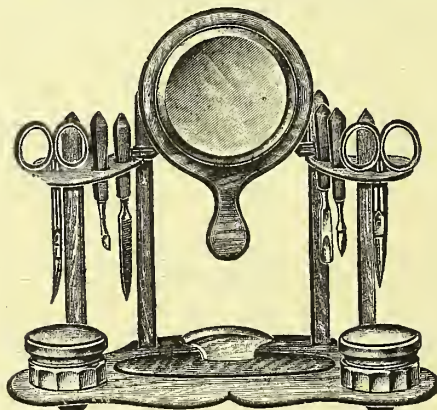
Telephone :
Northern 2102-3.
Telegrams :
ADOLPH, B'HAM.

... MANICURES ...

IN CASES, ROLLS, OR ON STANDS.

BRUSH CASES & TOILET REQUISITES

In EBONY, TORTOISESHELL, IVORY,
E.P.N.S., SILVER and GOLD.



SEND FOR NEW FANCY AND LEATHER GOODS CATALOGUE.

The Big "Follow-on" Advertising Campaign in the Great National Press

**FULL PARTICULARS WILL BE
ANNOUNCED
ON THIS PAGE
NEXT WEEK**

**"THE
GLEAM
OF YOUTH
ON EVERY
TOOTH."**

**NOW PACKED IN
TWO SIZES
RETAILING AT
1/6 & 2/-
PER TUBE**



*Secure the full
benefit from
this advertis-
ing, and be
prepared to
meet the de-
mand for New
Mix on or
before the
above date.*

GILMONT PRODUCTS, Ltd.
35 CRUTCHED FRIARS, LONDON, E.C.3

Maw's Page

New Sales and New Profits



Progress and Propaganda are jointly responsible for the ever increasing application of electricity to new purposes. They have revolutionised methods and, incidentally, created a big demand for electrical accessories. Among these is the electric heating pad, an article which obviously has a hundred-and-one uses in any well regulated household.

The public naturally looks to the pharmacist to meet this demand and therefore we have arranged to supply to our customers the "Universal," an electric heating pad of really reliable quality, selling at a reasonable price, carrying a substantial profit and having several unique selling points. The demand which already exists for the "Universal" Electric Heating Pad will be stimulated by a widespread advertising campaign, embracing such journals as the *Daily Mail*, *Times*, *Sunday Times*, *Good Housekeeping*, *Ideal Homes*, *Woman's Journal*, etc.

To stock the "Universal" is to make new profits. Send Us Your Order—To-day.

The "Universal" Electric Heating Pad is scientifically designed to maintain at will temperatures between 100 degs. to 200 degs. Fahr. It cannot overheat because four thermostatic controls are embodied in the pad. There are three distinct degrees of heat—high, medium and low—and these are constant, so that uniform temperature can be maintained. The regulator can be changed, in the dark if necessary, by simple operation of a switch. No technical knowledge is required to work the "Universal." It plugs into the ordinary household wiring and is supplied in two voltages—100-125 volts and 200-250 volts.

In three colours: Lavender, Pink and Blue. Each in an attractive display carton.

Wholesale Price

35/8

Retail Price

47/6



S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



Maw's Page

Sell a Good Brush and Make More Profit

It is easy enough to sell cheap brushes. Put a basketful of low-priced hair brushes on your counter and they'll sell themselves. But how much better off will you be? None! You will have gained next to nothing and lost so many opportunities of selling a good article, securing a satisfied customer and making a reasonable profit.

It is worth an effort to maintain prices and profits, and the wise pharmacist seeks for ways and means of inducing his customers to buy good brushes and to pay fair prices. One reason is close to hand—the fashion for bobbed and shingled hair.

The modern woman's head of short, thickly growing hair demands a good brush. A cheap brush cannot penetrate to the scalp and give the vigorous brushing necessary for the health of the hair, nor can it stand up for any length of time to the wear and tear. Explain this to your lady customers and you will have little difficulty in inducing the majority to buy brushes that will do justice to your reputation and yield a profit worthy of your selling efforts.

Remember the individual demands of every customer can be met by a "Meritor" hair brush. There are long-handled "Meritor" brushes for ladies; there are military pattern "Meritor" brushes for men. There are "Meritor" hair brushes with a variety of fillings; some ball cut, some high cut, some flat cut. There are "Meritor" rubber-cushion hair brushes filled with the finest pure boar bristle.

Sell A "MERITOR"

Not only a "Meritor" hair brush, but a "Meritor" tooth, shaving, nail or bath brush. Full details of the series appear on pages 43-52 of our Sundries Price-List.



S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



EVERYTHING

The
G. E. C.
your guarantee

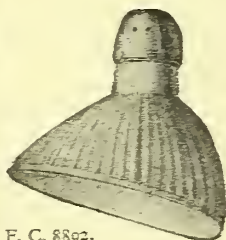
ELECTRICAL

GECORAY

SYSTEM OF SHOP WINDOW LIGHTING

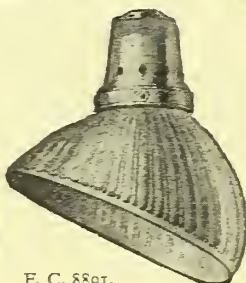
Well-lighted windows attract more and sell more. Ensure bigger return from your time, thought and money put into your window displays by using The "GECORAY" System of Shop Window Lighting. There are "GECORAY" Reflectors to suit all sizes of shop windows.

Write for copy of illustrated folder F 4815, describing the "GECORAY" system of shop window lighting. Sent POST FREE on application.



F. C. 8892.

"SOLAR" for high shallow windows and medium dressing. For 60 watt OSRAM Gasfilled lamp. Height $7\frac{1}{2}$ " Width $7\frac{1}{2}$ ".



F. C. 8891.

"SENATE" for average windows. For one 100 watt or 150 watt OSRAM Gasfilled lamp. Height $9\frac{1}{2}$ " Width 9".

Manufacturers (Wholesale only)

THE GENERAL ELECTRIC CO., LTD.

Head Office: MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

Branches throughout Great Britain and in all the principal markets of the world.



Guarantee

We hereby guarantee for a period of **FIVE YEARS** from date of purchase to replace free of charge any GECORAY reflector that checks, peels or tarnishes if used with the lamp specified



RAT WEEK

NOVEMBER 5-10

Recommend

LIVERPOOL VIRUS

THE

"SAFETY FIRST"

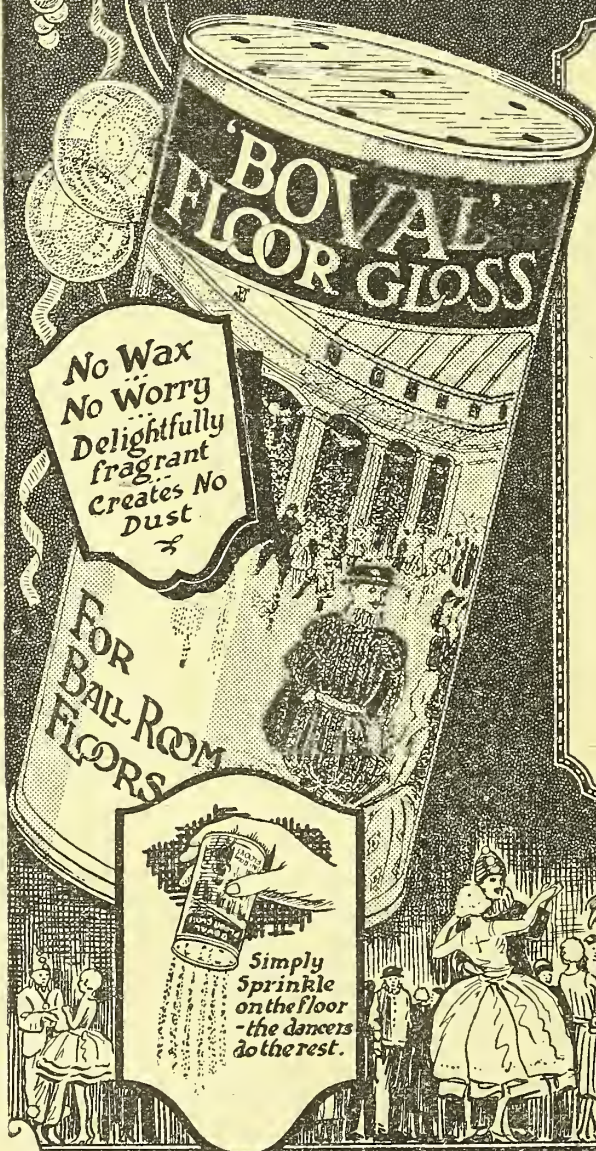
METHOD

Evans'

EVANS SONS LESCHER & WEBB LTD.
LIVERPOOL & LONDON

For a **PERFECT** dance floor—
you can confidently recommend—

BOVAL FLOOR GLOSS



Take full advantage
of the

DANCING SEASON

by displaying

'BOVAL'

FLOOR GLOSS

*Packed in beautifully decorated sprinkler-
top containers.*

1/6 P.A.T.A. - 12/- doz.

2/6 „ - 20/- doz.

Bonus for 10 Days' Window Display

**13 to the dozen on orders
to the net value of £5.**

Carriage Paid. Free Package.

Attractive Showcard Supplied.

STOCKED BY LONDON HOUSES.

**JAMES WOOLLEY
SONS & Co., LTD.
MANCHESTER.**



*Have a "Pinch"
with me—*

*The Waistcoat Pocket
as a Salesman!*

"Dispello"
**CATARRH
SNUFF**

IT'S THE LITTLE THINGS WHICH MAKE A LOT. At the present time, when head-colds are rife, everyone is a possible purchaser of "DISPELLO" CATARRH SNUFF—IF THEY KNOW.

Orders are simply pouring in from old and new buyers. Someone is supplying the demand—and you?

Try our idea of "Have a pinch with us." Put in the full-dress window display: give the customer at the counter the little envelope containing sufficient for a generous sniff. Keep a non-sift box of "DISPELLO" in your own waistcoat pocket; tell your assistants to do the same—and offer a pinch to everyone you come across who has catarrh or a "sniffy cold": if he hasn't now, he will have sooner or later.

FREE SAMPLES

The little envelope shown in the corner contains a generous sniff. Free samples equal to the quantity of your order are sent with goods and window display is provided on request.

Per dozen	..	..	..	at	4/6
6 dozen	..	..	..	at	4/3
Gross lots	..	..	..	at	4/-

1-dozen box (to show display outer)
will be sent post free for 4/6.

"DISPELLO" CATARRH SNUFF
is compounded from Oils of Eucalyptus
and Pine, Terebene, Bismuth-Oxynil,
Boric Acid and Menthol.

*Have a "Pinch"
with me—*
"DISPELLO"
CATARRH SNUFF

AYRTON, SAUNDERS & Co. Ltd.

LIVERPOOL - - - ENGLAND

Ayrton, Saunders & Co. Ltd.
LIVERPOOL ENGLAND.

FLASHLIGHTS SELL EASILY—PROFITABLY



Here is a profit line for you this winter, quick selling, and trouble free.

Everybody needs a flashlight. Get **YOUR SHARE** of this business.

Write to-day for new complete catalogue of the most extensive range of Torches, Pocket Cases, Bulbs, and Batteries in the trade.

High-Power Batteries, with a 12 months' guarantee - 3/6 dozen.
Torch Cases - from 4/- dozen.
Pocket Cases - from 3/- dozen.
Hand Lamps - 9/- dozen.

Send a P.C. with your heading.

SELL FLASHLIGHTS

PIFCO LTD., 85, PIFCO HOUSE,
HIGH STREET, MANCHESTER

In the High Court of Justice

KING'S BENCH DIVISION

HAGUE v. **START** 1928 H. No. 2084
MALLINSON v. **START** 1928 M. No. 1985
YOUNG v. **START** 1928 Y. No. 583

I, LEONARD START of Aylestone, near Leicester, Commercial Traveller, in the employ of Gollin & Co. (Proprietary) Limited, the Defendant in these three actions for slander, express my regret to Mr. John Hague, J.P., of 18, High Street, Lincoln, Mr. George Arthur Mallinson of 4 & 5, Queen Square, Southampton Row, London, W.C.1, and Mr. Arthur Edward Young of 16, Gallowtree Gate, Leicester, and apologise for any annoyance or embarrassment which they have suffered as a result of certain statements made by me upon which a construction may have been placed reflecting upon their conduct as Officials of the Retail Pharmacists' Union or otherwise.

I have made no statement which was intended to convey any adverse impression with regard to the conduct of these gentlemen, but if any statement of mine has been capable of conveying the meaning that they were not acting in accordance with the principles of the Union I regret it and unhesitatingly withdraw such statements and I also undertake to pay the Plaintiffs' costs of these actions and of the publication of this apology.

DATED this 9th day of October, 1928.
LEONARD START.

1 FORMULA **2 COATING** **3 FINISH** **4 PROFIT** **5 DISPLAY**

1. THE FORMULA is of undoubted efficacy, as is proved by the growing demand for Emulsion Pastilles after many years of public trial.

2. THE COATING is one that was invented by us many years ago. It is always pleasant to taste and smell.

3. THE FINISH is hard and glossy and literally reflects the quality of the pastilles themselves.

4. THE PROFIT is on unusually generous lines. Buying on the most favourable terms shows 50% on selling price.

5. THE DISPLAY facilities include cut-stoppered showjars, panel showcards, counter stands for "marble" tins and an exceptionally effective window display.

EMULSION ANTISEPTIC THROAT PASTILLES

GOOD PASTILLES, well displayed in due season, are more than half sold. Every passer-by needs them and the "Castle" window-show is an ideal method of bringing the need home to your customers—and to those whom you would like to become customers. No one passing your window could fail to see and to appreciate such an imposing display. Illustration and full particulars on request.

TO EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES, Ltd., West India House, Liverpool.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797

C/706

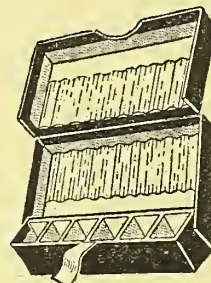
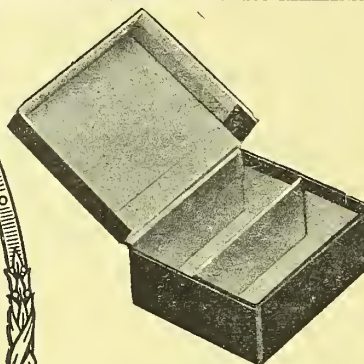
COPYRIGHT



ROBINSON'S of CHESTERFIELD for CARDBOARD BOXES

ROUND · OVAL · SQUARE · FOLDING

ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



CHEMIST BOXES

We specialise in the manufacture of small boxes for chemist use, and our range of these boxes is large and varied.

May we have the opportunity of quoting you for your requirements when next you are in the market?

ROBINSON & SONS, Ltd.

Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES,

CHESTERFIELD

Attractive
Displays
will
increase
your
Sales

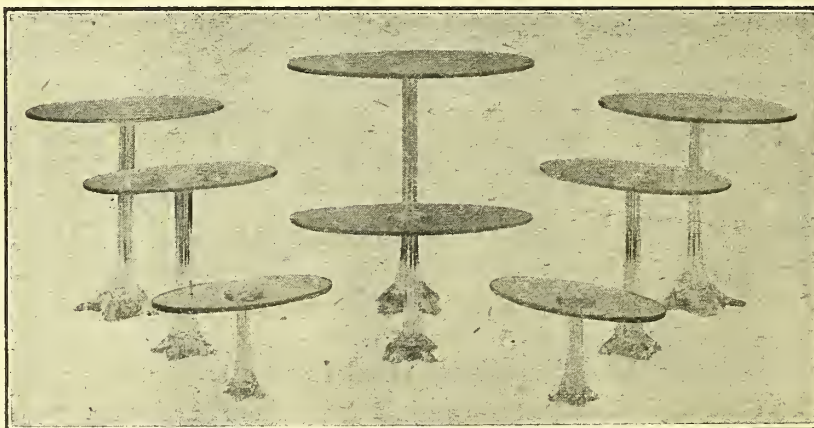


Plate Glass
Counters
and
Show
Cases in
Stock.
Prices on
Application

No. CD 2200

This attractive All Glass Unit comprises :—2 each 4", 8" and 10", and 1 each 6" and 12" Glass Pedestals;
2 each 8"×4", 9"×5" and 10"×6", 1 each 11"×5" and 12"×8" Plate Glass Oval Shelves.

Price complete (carriage forward single sets, carriage paid London area 2 or more sets) 21/-

Write or call for Illustrated
Catalogue C9 to Display Fit-
tings Dept., 32/34 Old Street,
London, E.C.1.

HASKINS

DISPLAY DEPT.,
OLD STREET, LONDON, E.C.1

'Phone : Clerkenwell 3405/6.

Plate Glass Shelves of all
sizes in stock.

A visit to our Show Rooms
would be appreciated.

All enquiries
promptly attended
to.

Head Office and Works : Walthamstow, London, E.17
Manchester Showrooms : 1 New Brown Street

Orders of £2 and
upwards carriage
paid London area.

REDUCTION IN THE PRICE OF Roboleine



The demand for the family size of Roboleine is now so large and is increasing so rapidly that we have found it possible to reduce the retail price from 15/- to 12/6.

The wholesale price is reduced from 135/- per doz. to 112/6 per dozen. Will all Chemists who have stocks of this size please let us know the quantity they hold? We will then credit them with the total amount of the difference between the old and new prices.

The family size of Roboleine is going to be very popular indeed. The economy it offers is a great selling point. It will be advisable to bear this in mind when looking over your stocks.

OPPENHEIMER, SON & COMPANY, LTD.

179 QUEEN VICTORIA STREET

- LONDON, E.C.4

PLAIMAR

(Regd.)

SANDALWOOD OIL

DISTILLED BY

PLAIMAR,
LTD.,
PERTH,
W.A.



Pronounced therapeutically equal to Oil of Santalum Album and physiologically superior

LIMITS OF ANALYSIS:

Sp. Gr. @ 15.5°	0.968 to 0.975
Opt. Rotation α_D	-4° to -16°
Alcohol as Santalol	92% to 96%
Solubility in 70% Alcohol ..	1 in 3 to 1 in 6 Vols.

EUROPEAN AGENTS:

MAXWELL, PLAISTOWE & Co., LTD.
8 OLD JEWRY, LONDON, E.C.2.

Telephone: Central 5859.

Telegrams: "Azucena, London."

Paris Address: *ETABLISSEMENTS PLAISTOWE, 11 bis, Rue Volney.*

Established 1795.

LAUTIER FILS

Works: GRASSE (France) & BEYRUT (Syria).

Essential Oils and Synthetics.
All Raw Materials for Perfumery.

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Sole Agents for:—

PAOLO VILARDI *Messina Oils:*
Lemon, Bergamote, Sweet Orange, etc.

S.A. FLORFE *Spanish Oils:*
Spike Lavender, Rosemary, Thyme,
Pennyroyal, etc.

C. MINTCHEFF & KETCHEDJIEFF
Otto of Rose. Bulgarian.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London E.dg., S.E.1
Tel. Add: "Lautier, Phone. London." Telephone: Waterloo 1601/2

Tried & Proved

Rowland's Macassar Oil is no new preparation; it has been used all over the world for more than 135 years and everywhere it is held in the highest esteem. It is guaranteed to

contain no
injurious
substance

P.A.T.A.
3/6, 7/-
& 10/6
Red for
dark hair;
golden for
fair or
grey hair.
From all
Wholesalers



**Rowland's
Macassar Oil**

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1

RM4T

SELL BRITISH BLADES.

CHARTUS BLADES

GILLETTE TYPE, Unequalled for Value, MADE IN ENGLAND.

Retail at 1/- per packet of 10 blades.

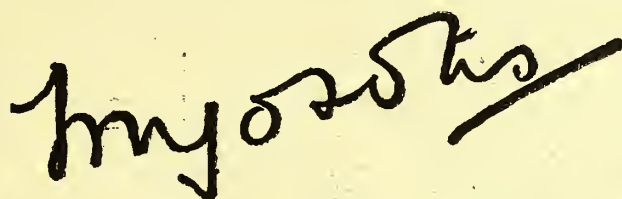
TRY A SAMPLE BOX

obtainable from your wholesaler at 6/3 per box of 100 Blades, or from

S T A M B O I S

SAFETY BLADE SERVICE.
7 Charterhouse Buildings, London, E.C.1.
Branches at LEEDS, GLASGOW, DUBLIN.

Sole Irish Free State Agency and Stock Depot:
SOLWAYE FRERES, 11 & 11a Fishamble Street, DUBLIN
IRISH FREE STATE PRICE — 7/- per box, 1/3 per packet of 10.

The logo for Myosotis, written in a stylized, cursive script, is enclosed within a rectangular border.

The Myosotis Perfumes are the great
attraction of the coming

XMAS SEASON



Lilas	-	-	-	4/-	10/6	21/-
Merveilleuse	-	-	-	4/-	10/6	21/-
Lily of the Valley				4/-	10/6	21/-
Wallflower	-	-	-	4/-	10/6	21/-
Gardenia	-	-	-	5/6	12/6	25/-
Val Fleuri	-	-				63/-

Subject to the usual terms.

Place your orders early to ensure supply

Apply for Terms to—

MYOSOTIS LIMITED

7 Hanover Square, London, W.1

ESSENCES & SYNTHETICS LTD.

WILLIAM C. SLATER, Managing Director.

4 CARLISLE AVENUE, FENCHURCH STREET, LONDON, E.C.3

Royal 0290.

Essynthet—Ald—London

A few of our latest Creations :—

AMBREINE

A sweet Oriental perfume with a delightfully delicate floral nuance.

LILY-OF-THE-VALLEY

True to Nature; even in its last traces on evaporation.

VICTORIA VIOLET

A very successful composition; a necessity to the creative perfumer.

PARMA VIOLET

A standard Violet; indispensable in the absence of the natural flower oil.

WALLFLOWER

A beautiful reproduction of the Old English Wallflower.

ROSE

An excellent substitute for Bulgarian Otto.

JASMIN

A composition giving the pungency as well as the ever-popular floralcy of Jasmin flowers.



Of the highest possible concentration, and hence very economical in use; perfectly soluble; do not discolour. Suitable for handkerchiefs, perfumes, face powders, vanishing creams, brilliantines, toilet waters, bath salts, soaps. Samples cheerfully sent by return of post.

Beethams
Larola
Toilet
Preparations

now attractively packed

Link up with the
NATIONAL ADVERTISING
Increase your
sales and profits

Special display terms on request from :—

M. BEETHAM & SON
DEPT. C.D. CHELTENHAM.



“OXIDUS”

THE HARMLESS PREPARATION FOR RESTORING THE COLOUR OF GREY :: OR FADED HAIR ::

Rapid Growth in Popularity

So fast has been the growth in popularity that we have decided to improve the form of packing. We feel that the new and dainty carton in which OXIDUS is now sold will act as a further aid to its sales. OXIDUS Progressive has grown in public favour because it gives uniformly satisfactory results.

OXIDUS Progressive is put up in two sizes. Trade Price, 20/- and 36/- per dozen. Retail at 2/6 and 4/6 per bottle.

On P.A.T.A. List. Obtainable from Messrs. Osborne, Garrett & Co., the leading Wholesale Houses, or direct from—

THE LITTO LABORATORIES

29 Highbury Grove - LONDON, N.5



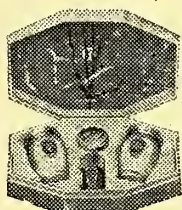
Coffrets — and "goodwill"

"GOODWILL" Presents for Christmas bringing "goodwill" to your Pharmacy. These beautiful presentation coffrets will be in big demand this festive season. Advertising to the public commences Oct. 20. Write now for full particulars and prices of the

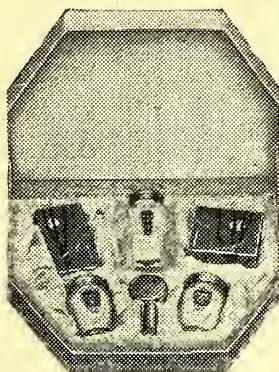
"Mists (of the) Moon"

Gift Coffrets

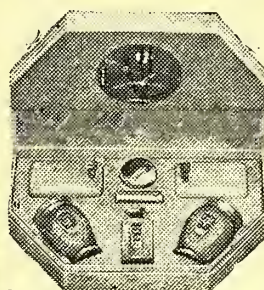
Perfect Presents—Perfectly Presented



Containing "Mists of the Moon," Vanishing Cream, Night Cream, Perfume and Powder Compact.
Retail price, 5/-



This handsome Satin-Lined Coffret contains "Mists of the Moon" Perfume, Powder, Night Cream, Vanishing Cream, Powder Compact (in gilt vanity case with mirror and puff), Talcum Powder and Lip Stick (in gilt case with jewelled slide)
Retail price, 21/-



This coffret contains "Mists of the Moon" Perfume, Toilet Soap, Vanishing Cream, Night Cream, Powder Compact (in gilt vanity case) and Lip Stick (in gilt slide).
Retail price, 11/6.

Cussons

KERSAL VALE, MANCHESTER

Display

DISPLAY for display's sake will probably attract attention all right—and comment—but that's about all. The goods themselves must back up the display, then they'll sell like hot cakes. Poppœa Perfume is a case in point—the goods backed with display. The most seductive perfume, sold in the most artistic bottle, carrying the most distinctive and taking label. Poppœa Perfume will make a splendid show on your counter—sell itself in fact.

The prices are 3/- and 5/9 and a dainty handbag size which sells at 1/-. These all have a profit of 33 $\frac{1}{3}$ % on selling price, with our usual cash discount and *special terms for quantities.*

POPPŒA PERFUME
and toilet preparations
are manufactured by the
makers of

PAPIER POUDRÉ

LTD.

46, Baker Street, London, W.1.

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP	10/-	1/-
A complexion soap.		
PROLACTUM	10/-	1/-
For the lips.		
PARSIDIUM JELLY	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM	22/6	2/6
A hair tonic.		
CLEMENITE	22/6	2/6
For a face lotion.		
COLLIANDUM (Powder & Solide.)	22/6	2/6
For a face tint.		
PERGOL	22/6	2/6
A deodorant.		
TEKKO PASTE	22/6	2/6
Camphor cream.		
STALLAX	13/6	1/6
For a shampoo.		
JETTALINE	31/6	3/6
For clearing the skin.		
PHEMINOL	36/-	4/-
A depilatory.		
MENNALINE	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX	18/-	2/-
A face cream.		
STYMOL	31/6	3/6
For oily complexions and blackheads.		
SILMERINE	22/6	2/6
Hair-curling fluid.		
BARSYDE	22/6	2/6
Dandruff eradicator.		
TAMMALITE	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM	22/6	2/6
For whitening the hands.		
COCONOIDS	31/6	3/6
For figure development.		
SIPOLITE	18/-	2/-
A new depilatory.		

The Products of

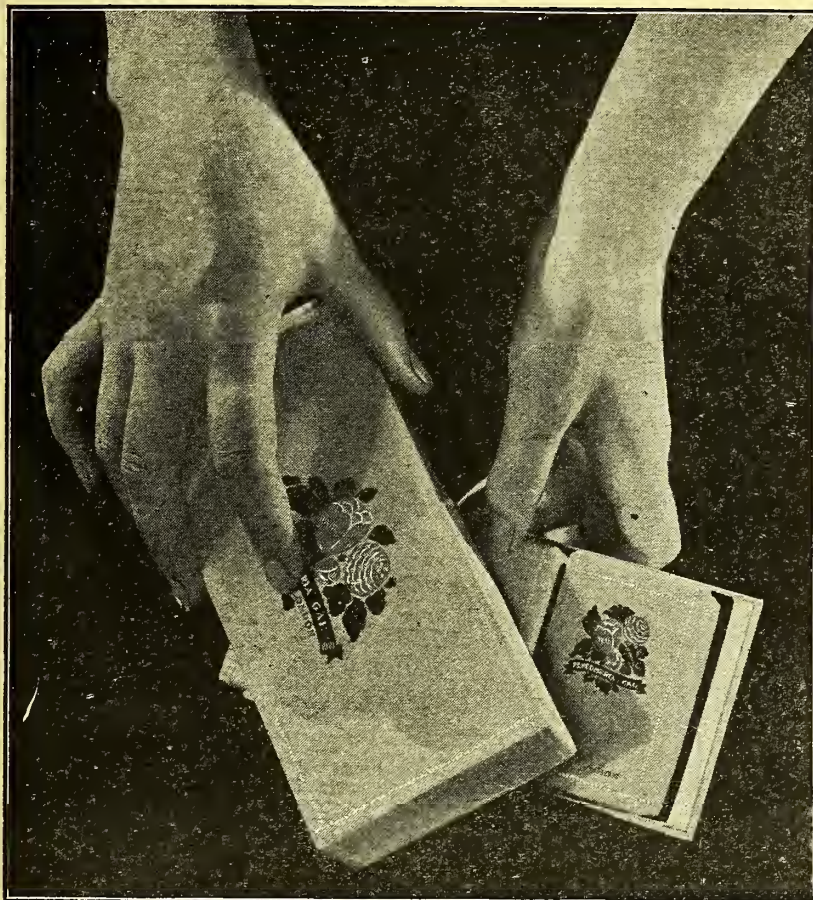
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	36/-	4/-
For obesity.		
SOFT PALERIUM	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPÔTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS. & KARNOVSKY, LTD., Johannesburg.
India: FRAMJEE & SON, Bombay.
A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
Denmark: KARL SCHULTZ & CO., Copenhagen.
Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.



Gal
Introduces
a New
Toilet Soap



By appointment to
Their Majesties the
King & Queen of
Spain.

THE GREAT

GAL
ADVERTISING
CAMPAIGN
STARTS ON
OCT. 31

TRADE TERMS

GAL Toilet Soap retails at 1s. per tablet, and 2s. 9d. per box of three. The price to you is 11s. per dozen tablets, less 33½ per cent. discount P.A.T.A. This means you make nearly 4½d. per tablet. Order from your usual wholesaler, and ask for display material. If you experience any difficulty in obtaining supplies, write direct to us, mentioning the name of your usual supplier.

GAL TOILET SOAP, long famous in Spain, is now being introduced to this market in a manner befitting its distinguished position. An exquisite soap, at a popular price, with a capacity to please which will bring increasing sales.

The Great "Gal" Advertising Campaign starts on Oct. 31. Note that day: From then onwards the following publications will contain full page advertisements, some in three colours, for GAL TOILET SOAP, creating sales for you, at the unusually large profits GAL offers you.

Nash's, Eve, Sketch, Graphic, Tatler, Woman's Journal, Bystander, Vogue, Queen, Punch, Lady, Good Housekeeping.

Gal will be famous in the world of refinement before Christmas for Gal Toilet Soap is an ideal Christmas gift and a new one.

PERFUMERIA GAL, (London) LTD., 76 STRAND, LONDON, W.C.2. Telephone TEMPLE BAR 4662

Service Advertising

FS/83

B B

TOOGOOD'S BAY RUM AND HAIR PREPARATIONS

Packed in Gilt Capped Flasks



No. 4863.

	4 oz.	8 oz.
Bay Rum	10/6	15/6
Bay Rum and Cantharides	10/6	15/6
Bay Rum and Capsicum Hair Tonic	10/6	15/6
Bay Rum and Quinine	12/6	20/-
Bay Rum Rosemary and Quinine Hair Tonic	10/6	20/-

MANUFACTURED BY

WILLIAM TOOGOOD
LIMITED,
77, SOUTHWARK STREET
LONDON, S.E.1

A new Nildé sifter box

(HANDBAG SIZE)

Modernised and improved, this extra flat sifter box with puff is of new design outside and in, leak-proof, and the powder cannot patch or break. It contains as much powder as the well-known red and gold striped box, perfumed with our new creation, l'Ille Heureuse.

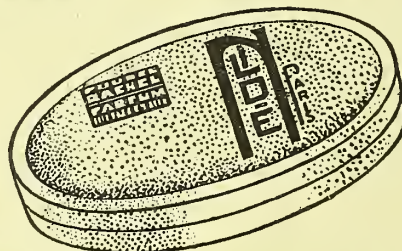
33 1/3%

discount off
selling price.

In 7 shades:—
rachel, naturelle,
ocre rosé, rose,
basanée,
indienne,
blanche.

1/-

P.A.T.A.

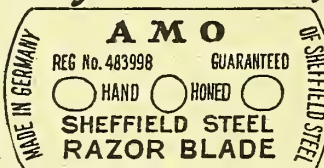


Distributed in
the U.K. by

BROOKS & Warburton, LTD.
40-42 LEXINGTON STREET, W.1.

Nothing *"As good as really"* **FREE**
Else!

than the
Blade you
have been
looking
for



3 doz. Blades
with each
Gross
ordered.

"Good Blades can be" **8/-** Per Gross
FREE TESTING SAMPLE UPON REQUEST. POST PAID.

ORDER NOW—IT PAYS BEST—GIVE "AMO" A TEST
L. FRANKENBERG, 125 Houndsditch LONDON, E.1
ESTD. 15 YEARS TEL. AVENUE 8846



**A
KEEN
BLADE
AT A
KEEN
PRICE**

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.
Inquiries from Genuine Wholesalers only are Invited.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4



WANTED!

A thoroughly experienced

Representative for Lancashire

Only gentlemen of exceptional ability and with active connections on the territory will be considered.

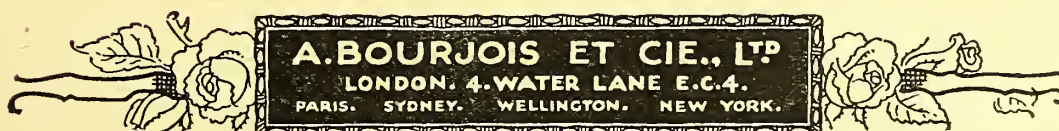
The territory is a very important one, carrying good salary, commission and expenses, and offers ample scope for a man possessing initiative and a forceful personality. A big job for a really good man.

¶ No personal interviews will be entertained in the first instance and applications must give the fullest details as to age, experience, etc. All such information will be treated in the strictest confidence.

Address applications to:—

Sales Manager,

A. BOURJOIS et CIE., Ltd.,
4, Water Lane, Blackfriars, London, E.C.4



The original combined Cream and Powder

la VELOURY

de DIXOR Paris



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES:—Full size pot	- 21/- doz.	RETAIL	2/9
Super tube	- 22/- "	"	3/-
Large tube	- 14/- "	"	2/-
Medium tube	- 7/- "	"	1/-
Handbag tube	- 3/- "	"	6d.

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the
Sole British Agents:

DEBACQ & HARROP, 68 Newman St., Oxford St., London, W.1

Patent No.
165982/20.



A REMARKABLE BRITISH INVENTION

THE
"SPIRO"

SAFETY RAZOR BLADE SHARPENER

Every user of the "Watts" Safety Razor
Blades is a potential purchaser.

—STRONG AND SIMPLE—

No troublesome fixing. Drop blade on
two pegs, close box, turn handle and
—get a super-keen blade in a moment.—

Retails at 21/- each.

Suitable for any Gillette Type or
Watts Auto Strip Type Blades.

Allowing 50% profit on cost for the dealer.

Sole Manufacturer:

JOHN WATTS, Lambert Works, SHEFFIELD.

London Office & Showroom:

18 Soho Square, W.1. Phone: Gerrard 1306

Highly nickel-
plated.



SHADEINE

For COLOURING GREY HAIR

This popular article is largely advertised

and stocked by all Wholesale Houses.

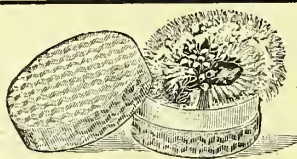
Trialsize 8d. per doz. 6/-

1/4 size, per doz. 12/-

2/6 size, per doz. 24/-

3/9 size, per doz. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2.



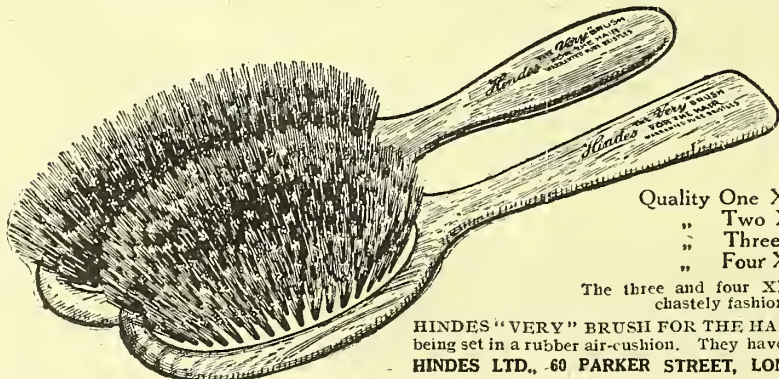
PUFFS

OF EVERY
DESCRIP-
TION IN
DOWN, WOOL, VELOUR
and BEAVER.

LATEST NOVELTIES.

WHOLESALE AND EXPORT.

SPENCER BROS., 39-40 Shoe Lane, LONDON, E.C.4



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/2%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood,
chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts
being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.
HINDES LTD., 60 PARKER STREET, LONDON, W.C.2. Works: BIRMINGHAM

*If you did not — you should.
It's your only Opportunity this year*

CUTEX BONUS

Cutex Christmas Gift Sets

as outlined in the recent Broadsheet. Send your order for these at once. Nos. 16, 17, 18, 19 and 25 Gift Sets or your own Cutex assortment from the list. Give at least 14 days' window display and you get:—

5% Special Display Discount on order for 50/-

7½% " " " " " " 100/-

Together with

FREE 6 only 2/- Cutex Cuticle Remover with order for 50/-

FREE 12 " " " " " " 100/-

Also up-to-date display material and a splendid Display Stand (so long as the limited number available lasts). Advertising is stronger and better than ever, and is focussed on the Gift Sets.

THE

CUTEX

LIST

No.		Per doz.	No.		Per doz.
1	2/- Cuticle Remover	18/-	45	2/- 1 Bottle Liquid Polish and 1 Bottle Liquid Polish Remover	18/-
2	3/6 Cuticle Remover	31/6	16	2/6 Compact Set... ..	22/6
4	1/6 Nail White	13/6	17	7/6 Travelling Set	67/6
5	1/6 Polish Cake, White	13/6	18	15/- Boudoir Set	135/-
6	1/6 Polish Cake, Pink	13/6	19	5/- Five Minute Set (Metal)	45/-
7	-/9 Polish Cake, White, Trial Size	6/9	25	12/6 Marquise Set (Metal)	112/6
8	1/6 Polish Powder	13/6	37	-/6 Emery Boards (Short)	4/-
9	1/6 Polish Paste, Pink	13/6	37D	-/4½ Emery Boards (Short) display 2 doz. in Box... ..	3/-
10	1/6 Liquid Nail Polish, Deep Rose	13/6	38	-/9 Long Emery Boards, 12 Cartons in a Display Box	6/-
46	-/9 Ditto, Ditto, Small	6/9	44	1/- Emery Boards (Extra Long)	8/-
11	1/6 Liquid Nail Polish, Natural	13/6	2B	-/6 Long Emery Boards, 1 doz. in Box	3/6
12	-/9 Liquid Nail Polish, Natural	6/9	101D	-/9 Orangewood Sticks, 1 doz. Bundles to a box	5/6
13	1/6 Cuticle Cream	13/6	39	1/- Orangewood Sticks, Sterilized	8/-
14	1/6 Cuticle Oil	13/6	42½	1/- Orangewood Sticks, in Cartons	7/6
22	1/- Polish Stick	9/-	101-2B	-/9 ½ doz. Bundles Orangewood Sticks } -/6 ½ doz. Bundles long Emery Boards } in Display Case	4/6
30	1/6 Liquid Polish Remover	13/6			
47	-/9 Liquid Polish Remover, small	6/9			
31	1/6 Brilliance Nail Polish	13/6			

Closes definitely, October 31st

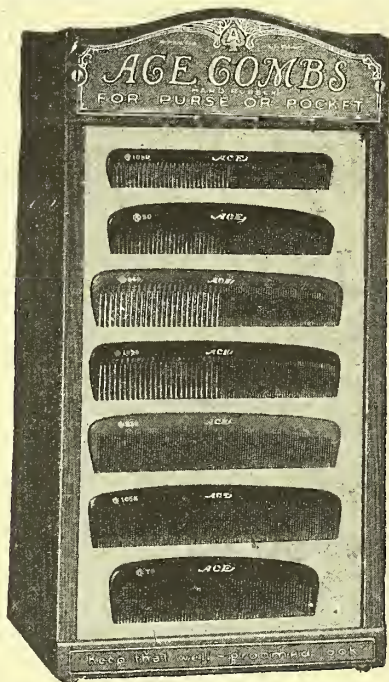
J.C. GAMBLES



AND CO. LTD.

211-215, BLACKFRIARS ROAD,

LONDON, S.E.1. PHONE HOB 6938-9



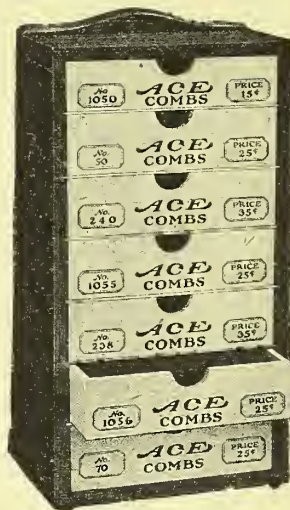
The illustration on right shows rear view of cabinet. Wooden drawers provide easily accessible storage immediately behind the styles shown in the front. The show specimens as seen in the front view of cabinet are mounted on a gold background under glass. Occupies little room on counter; height 12½ ins., base 4½ by 6½

Sell these fine quality "ACE" Combs for purse or pocket SHOWCASE FREE WITH ORDER

Start in on this profitable line. Fine quality combs made of ebonite —flexible, non-inflammable, brilliant hard finish. Supplied in seven styles, each with case. The ingenious showcase is free with your first order. It is permanent and not cumbersome. Re-fills can be put into the drawers at the rear. It contains seven dozen combs besides the free show samples. These come to you at 6½d. each, 45/6 the lot, and 5% discount for cash. They are easily worth a 1/- each to your customers. Supplied complete with counter cut-out and window-strip showbill.



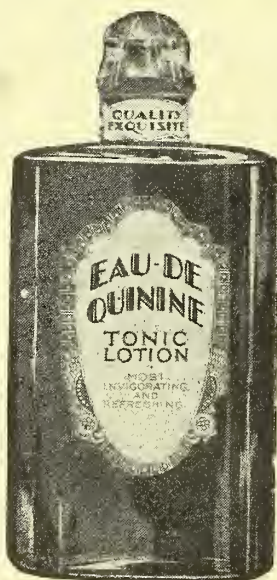
Direct from: American Hard Rubber Co. (Britain),
Ltd., 13a Fore Street, E.C.



CA 6188

OWN NAME TOILET PREPARATIONS OF DISTINCTION

ATTRACTIVELY AND EXCLUSIVELY PACKED
FOR THE PHARMACIST



Glass Stopped Bottles.

WALDEN, WALDEN & CO. —15 GRAPE STREET, —
NEW OXFORD STREET, LONDON, W.C.1

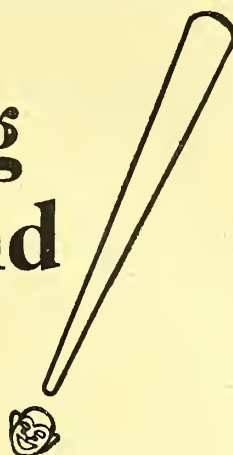
HONEY & FLOWERS	4 oz. 12/-, 8 oz. 18/- doz.
BAY RHUM	- - 4 oz. 12/-, 8 oz. 18/- doz.
BAY RHUM, ROSE-	
MARY & QUININE	4 oz. 12/-, 8 oz. 18/- doz.
EAU DE QUININE	- 4 oz. 12/-, 8 oz. 18/- doz.
SETTING LOTION	- 4 oz. 12/-, 8 oz. 18/- doz.
BRILLIANTINE	- - 4 oz. 12/-, 8 oz. 18/- doz.
HAIR CREAM	- - 4 oz. 10/6, 8 oz. 15/- doz.

Orders may be for one kind and size, or assorted.

3 doz. lots, 6d. doz. less; 6 doz. 1/- doz. less; 12 doz., 1/6 doz. less.

NAME & ADDRESS PRINTED FREE ON 3 DOZ. & UPWARDS.
CARRIAGE PAID IN U.K. ON 3 DOZ. LOTS AND UPWARDS.

An ever increasing demand



By every mail the demand increases from trade and public alike for the Leichner Booklet "Every Woman Beautiful." It is the most interesting and descriptive booklet yet produced on the correct use of powders and cosmetics.

Extensive national advertising is encouraging the demand for this booklet and is making the name Leichner familiar to every woman.

Leichner's powders, cosmetics and permanent lip sticks in their new attractive containers are making a wide appeal. If you have not had details of these products—if you have not received a free supply of the "Every Woman Beautiful" booklet, write at once.

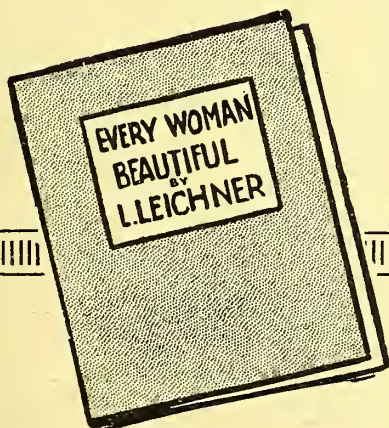
LEICHNER

11/12 Pollen Street, London, W.1

Telephone : Mayfair 4031.

Telegrams : Fettpuder, Wesdo, London

AND AT PARIS, BERLIN, NEW YORK



Perfumers to the Theatrical Profession since 1873

WRITE AT ONCE FOR RANGE OF SAMPLES AND PRICES.

FOOT BATH SALT SKILLETS

1/- Rheu Ped. 1/- Renal. 1/3 Kura. Average cost when packed, 24/- gross
Morning Salt Cartons, costs to pack, 16/6 per gross Retail 4½d.
1/6 Vigor Tonic Outfit, 8 oz. size. A proved seller Costs to pack, under 7/- doz.
* 1/6 Bismuth, Magnesia & Soda Mint Elixir Outfit. A sensible recipe. Costs to pack, under 7/- doz.
The "Best Seller" "Indigestion Mixture" on the market.

Showcards and Window Bills supplied with above Specialities.

Influenza Mixture Cartons and Showcards Price 1/3 or 1/6
Supplied with Name and Address imprinted in Small or Large Quantities.

SPECIAL LINES.

Slip Labels..	2/6 per 1,000, 5,000 one kind at 2/3
715 White Demy, Glazed Surface ..	6 reams at 4/- .. 10 reams at 3/9
2416 Yellow Wave Demy ..	5 reams at 6/6 .. 10 reams at 6/-
1325 Toilet Rolls Thin M.G. Sulphite..	46/- per gross .. 2 gross at 44/-
	Sell at 6½d., 3 for 1/6.
467 Manilla Toilet Rolls ..	65/- per gross .. 2 gross at 63/-
	Sell at 9d., 4/3 ½ dozen.
Crepe Sulphite Rolls ..	30/- gross
	Sell at 4½d., 3 for 1/-.

SHOWCARDS FREE.

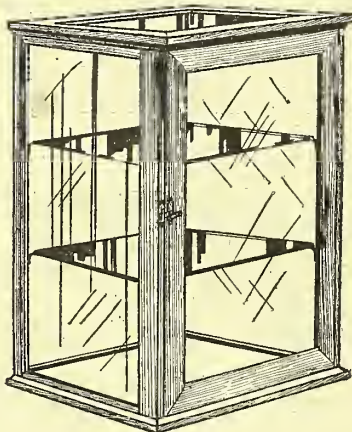
ALL MONTHLY ACCOUNTS SUBJECT TO 5%

SERVICE, QUALITY AND PRICES RIGHT.

LARGE STOCK OF STOCK LABELS FOR ALL PREPARATIONS.

SUTTLEY & SILVERLOCK, Ltd. The Chemists' Printers 92 Blackfriars Rd., London, S.E.1

The IDEAL CASE



FOR
YOUR
COUNTER

42/6

EACH.

No. CD/SF 2509. Solid Oak Framing. Dimensions: 2 ft. high x 1 ft. 3 in. wide x 1 ft. 3 in. deep. Clear glass all round and top, hinged door. Interior fitted two glass shelves. 42/6 each.

YOU NEED our List No. CD 1055. It contains 160 pages, each illustrated, of everything you require for your window display.

DUDLEY & COMPANY, Ltd.

HOLLOWAY, LONDON, N.7.

Head Office - - 451 HOLLOWAY ROAD.

And at 65 & 66 Fore Street, E.C.2

This gives a thorough mix-up

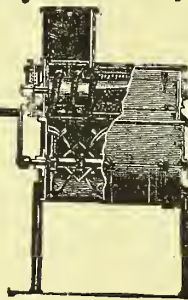
A Gardner "Rapid" sifter and mixer will thoroughly sift and mix ½ oz. of one ingredient with a 30-lb. mixture of dry powders at one operation, and "every pinch of the whole will show its presence"—a customer's statement.

Write us for list of Ball Mills, Disintegrators, Millstones and Mills, Drum Sieves, Drying Machinery, etc.

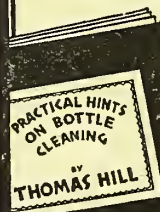
WM. GARDNER & SONS
(Gloucester) LTD.

Bristol Road, GLOUCESTER.

*Phone 117. *Grams: "Gardner," Gloucester



IF YOU ARE
INTERESTED IN
CLEANER BOTTLES
—you should
get this New Book.



An entirely new work, based on 50 years' practical experience of bottle cleaning. Containing some invaluable information on modern Bottle cleaning practice, it should be in the hands of all interested in securing scientifically clean and sterilized bottles and jars at the lowest possible cost.

Send to-day—free to all executive members of the Trade.

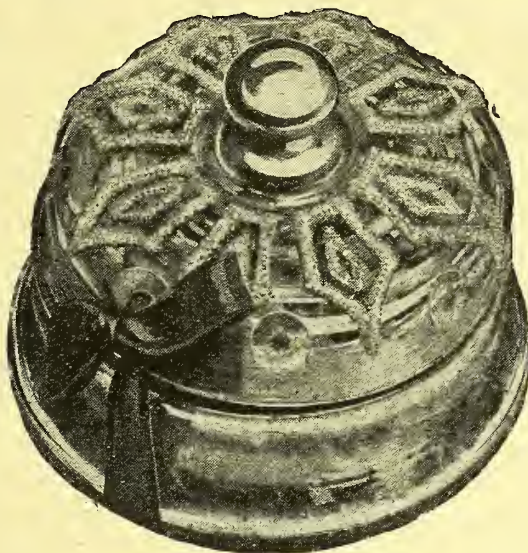
THOMAS HILL

9 Park Lane, Stepney, HULL.

Ye Olde Pot Pourri

*A blend of the
choicest flowers
of lasting
fragrance.*

**LORIMER-
MARSHALL**
LIMITED



*Various size
jars of assorted
design from
15/- Dozen*

**12 Tower Hill
E.C.3**

Telegrams: "LORIMARSCO, BILGATE, LONDON."

Telephone: NEW CROSS 2119.

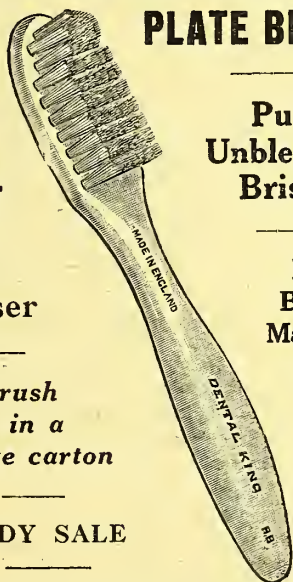
THE "DENTAL KING" PLATE BRUSH

**THE
BEST**
Dental
Plate
Cleanser

*Each brush
packed in a
separate carton*

READY SALE

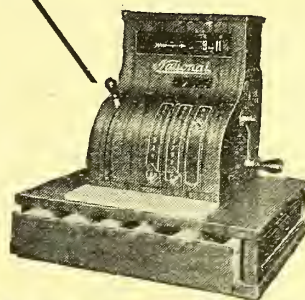
Illustrated Price List on application.
RIGBY BATTCOCK LTD.
Brush Manufacturers
LONDON - - - E.5



**Pure
Unbleached
Bristle**

**Best
British
Manufac-
ture**

**Greater
Accuracy
and
Convenience**
in recording
the takings is
assured by this



National CASH REGISTER

The
Price
is
only

£19

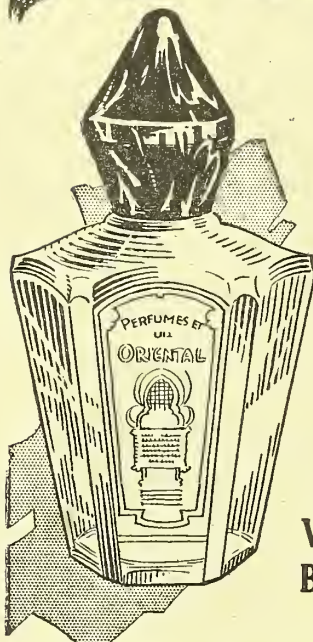
Supplied on
easy terms
or 5% Disc.
for cash.

Records sales from $\frac{1}{4}$ d. to $9/11\frac{3}{4}$. Indicates each amount back and front. Adds all sales into grand total. Large well made cash drawer opens automatically. Bell rings when register is operated. Machine is quick and easy to use. Modern steel cabinet, best mahogany finish.

Write for further details:

The National Cash Register Co., Ltd.,
225, Tottenham Court Road, London, W.1.

A SENSATIONAL ACHIEVEMENT VITREO- COLLOID BOTTLE CAPPING SOLUTION



Here is an entirely new material for bottle capping for mass production or in a small way. Although only recently introduced it has an extraordinary popularity amongst keen and progressive firms.

It is British throughout and is sold in 1-lb. tins or quoted in quantities.

**YOU CAN SAVE
MONEY AND DO
IT BETTER WITH
VITREO-COLLOID
BOTTLE CAPPING**

Because :

1. It is the cheapest and most effective method.
2. It is non-inflammable in its dry state, staple, inert and hygienic.
3. It dries within 10 minutes.
4. It gives a fine finish and in various colours.
5. It is greaseproof and hermetically seals indefinitely.
6. Its surface repels dirt and preserves bright clean appearance.

Obtainable from all WHOLESALERS. Also Sole Selling Agents:

S. MURRAY & CO., LTD.

Record House, Farringdon Road, LONDON, E.C.1

'Phone: Holborn 0717 & 0718.

'Grams: "Depressors, Smith, London."

Upon receipt of p.c. our demonstrator will call upon you

VITREO-COLLOID TRANSPARENT WRAPPING

To Soap Manufacturers, Perfumers, etc. Make a note—new Factory now in progress. Enquiries during SPRING 1929 will be promptly attended to.

JOHN M. NEWTON
VITREO-COLLOID, LTD.

Kingsbury House,
King Street, London, S.W.1

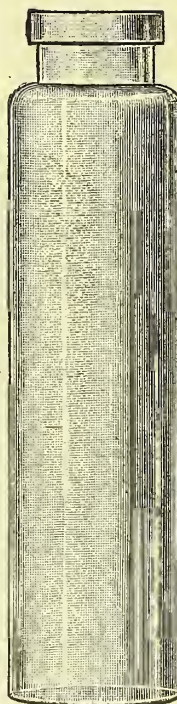


V.P.

DOUBLE VV BRAND

VIALS

British made on British Machines.
NOT MOULDED.
Accurately made with Flat Bottoms.



Enquiries Invited.

GLASS PRODUCTS LTD.

125 High Road, E. Finchley,
London, N.2.

Tel. No.: Finchley 3244.

WAGNER'S DRY BOTTLE CAPS

BEST IN QUALITY & APPEARANCE



R.V. WAGNER

33, Brooke St., London, E.C.1.

Tel. No: Holborn 5090

Chemists' Fittings

*When you want Shop Fittings it
will pay you to send to*

GEORGE COOK

The Chemists' Working Shopfitter.

27 Macclesfield St., City Road, E.C.1
LONDON.

30 years' experience.

Rough Sketches free.

Registered Trade



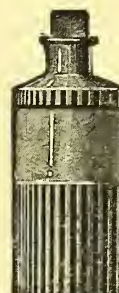
Mark, No. 26866.



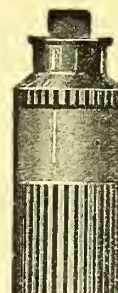
Hand-turned Shop Rounds.



Recessed Shop Rounds.

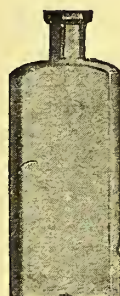


Recessed Poison Rounds.



SHOP BOTTLES

of the finest finish. Perfect Stoppering. Made in glass free from arsenic and lead; this feature is of vital importance in the case of Shop Bottles.



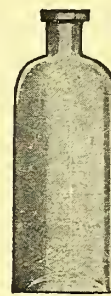
R.C. Flat.



B.C. Flat.

DISPENSING BOTTLES—

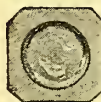
accurate in Capacity, free from arsenic and lead, and handsome in appearance. The aristocrats of bottles.



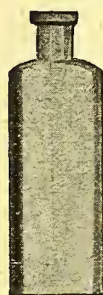
Oval.



Oval Fronted Flat.



B.C. Square.

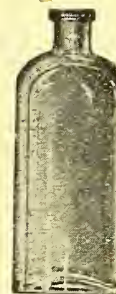


R.C. Square.



DOUBLE-ENDED FEEDERS

The finest the world has yet seen. Made in beautiful lustrous white flint glass which is so durable that it may be boiled continuously for twenty-four hours without shewing signs of deterioration.



Oval, 2 Flat Sides.



Octagon.

Sold by all the Leading Wholesale Houses.

WOOD BROTHERS GLASS CO., LTD.

BARNSELY,

(Established 1828)

ENGLAND

Packing with
an eye to publicity



Aluminium Containers by H. G. Sanders & Son, Ltd., Southall.

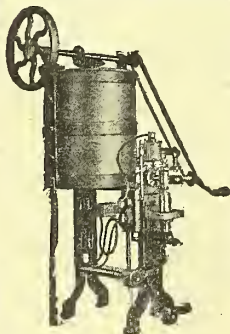
Aluminium
THE BRITISH ALUMINIUM COMPANY LTD.
ALUMINIUM PRODUCERS, ADELAIDE HOUSE,
KING WILLIAM ST., LONDON, E.C.4.
TEL. CRYOLITE, BILGATE, LONDON.

Cosmetics
and creams in be-
wildering variety!
A distinctive con-
tainer becomes a
necessity. Then,
be the shape sim-
ple or complex,
the colouring
ornate or sub-
dued, it may
find expression
without extra-
vagance, in
aluminium.

Roberts' Original Patent BOTTLE FILLING MACHINES

The record makers in speed filling with cleanli-
ness. Foot-Operated Machines. From £5 5s.
Hand-Operated Machines. From 36/-.
Soundly constructed, simple in action, easy to clean.

NEW PATENT SHALLOW TIN FILLING MACHINES.



"ROYAL"

Automatic CAN FILLING
MACHINES, MIXING
MACHINES, CORKING
MACHINES.

NEW PATENT ACCESSOR-
IES TO "NELSON,"
"VICTOR" and "NAVY"
BOTTLE FILLING
MACHINES enable them to be
used as Vacuum Fillers, Gravity
Fillers or Pressure Fillers at will.

WRITE TO-DAY TO
**ROBERTS' PATENT
FILLING MACHINE CO.**

33 Roundcroft Street, BOLTON, LANCs.

All rights reserved.

EVERY CHEMIST IS INVITED TO
SEND US THEIR ORDERS FOR

APEX SUN-RAY LAMPS

FOR ARTIFICIAL SUNLIGHT
TREATMENT AT HOME.

They are a profitable selling line

EFFICIENT, SAFE, AND IN GOOD DEMAND

Nothing to deteriorate.
SELLS ON SIGHT.
Cannot overdose—connects
to ordinary lamp socket.

Complete with Goggles,
Carbons, and full
instructions.

£6 6s.

Also Larger Model,
£15 15s.

Numerous Testimonials.
LIST FREE.



APEX SUN-RAY Ltd.

51-52 Fenchurch Street,
London, E.C.3.
Phone: Royal 4014.

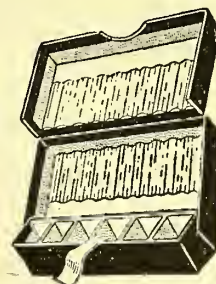
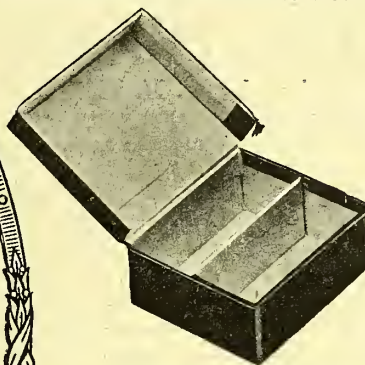
119-125 Finsbury Pavement,
London, E.C.2.
Phone: Clerkenwell 3338.



**ROBINSON'S of
CHESTERFIELD
for
CARDBOARD
BOXES**

ROUND · OVAL · SQUARE · FOLDING

ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



CHEMIST BOXES

We specialise in the manufacture of small boxes for chemist use, and our range of these boxes is large and varied.

May we have the opportunity of quoting you for your requirements when next you are in the market?

ROBINSON & SONS, Ltd.

Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES,

CHESTERFIELD



"CORFALGAR"

Solid Drawn.
Silver Polished.

ALUMINIUM

HOT WATER BOTTLES

BRITISH THROUGHOUT. GUARANTEED LEAKPROOF.
WHOLESALE ONLY.

CORFIELD LIMITED

Phone :
WIMBLEDON 2061-2

Trafalgar Works, Merton Abbey, London,

Specialists in Deep Drawn Screw Caps and Containers.

**THREE QUICK-SELLING
LINES of EXCEPTIONAL
MERIT.**

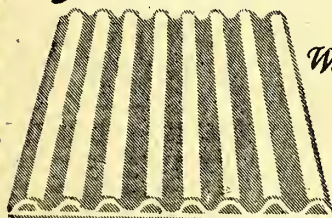


348.

347.

350.

**Corrugated Packing
Materials Co., Ltd.**



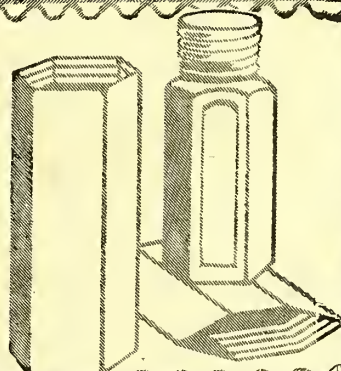
4, Ambrose St.,
West Gorton, Manchester

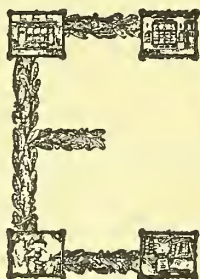
**BOXES, CARTONS,
PARTITIONS, &c.**

for all purposes.

PHONE :
OPENSHAW
401.

WIRES :
"CORRUPAPER
MANCHESTER."





NOW READY

27/6 net, postage 6d. 19th Edition. Vol. I (1928).

EXTRA PHARMACOPOEIA

Revised by W. H. MARTINDALE, Ph.D.

The New Edition of this well-known Work contains 1,207 + xxxvi pp. (40 pp. more than last time). It conveys concisely the latest information in Therapy, Chemistry, Pharmacy, etc.
 NO RECENT DEVELOPMENT IN MEDICAL THERAPY OF INTEREST HAS BEEN MISSED
 NEW TRANSPOSITION TABLES for conversion of doses from animals to man. INTRAVENOUS DOSE TABLE. SPECIAL PREPARATIONS: Descriptions of leading proprietary medicines. POISONS. DANGEROUS DRUGS ACTS. THERAPEUTIC SUBSTANCES ACT. THERAPEUTIC INDEX (70 pages). GENERAL PHARMACOLOGICAL INDEX (over 10,000 items). Several thousand ABSTRACTS FROM CURRENT LITERATURE up to and including June 30, 1928.

"We take it for granted that every up-to-date pharmacist will hasten to possess so indispensable a book."—*The Chemist and Druggist*.

Full Leaflet of Contents on application.

London: H. K. LEWIS & CO. LTD., 136 Gower Street, W.C. 1.

Also obtainable from W. MARTINDALE, Manfg. Chemist, 12 New Cavendish Street, London, W. 1.

WESTMINSTER COLLEGE OF PHARMACY.

WILLS' UNIVERSAL POSTAL SYSTEM

FEES (GT. BRITAIN & N. IRELAND)

PRELIMINARY SCIENTIFIC COURSE	-	£1 10
QUALIFYING COURSE	- - - -	£1 10
COMBINED COURSE	- - - -	£1 11 6
APOTHECARIES' HALL COURSE	- - - -	£1 11 6

POSTAL COURSE PROSPECTUS POST FREE

from The Secretary,

190 CLAPHAM ROAD, S.W. 9.

MANY SUCCESSES IN THE EXAMINATIONS

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optica Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.
 50 HIGH STREET, BARNET, LONDON, N.
 S.A. Representative: E. E. G. WOOLLEY, F.S.M.C., M.P.S., P.O. Box 1953, Durban.
 N.Z. Representative: R. C. AITCHISON, Box 158 PALMERSTON, North.

Agfa films, please!"

EVERYWHERE there is an extraordinary demand for Agfa Films and Film Packs. Amateurs want them—they like their consistency and the superior results they always ensure in any weather. Are you getting your share of this trade? Be in time—stock Agfa Films and Film Packs, also Agfa Metol, Amidol, Hyposulphite of Soda Pea Cryst., Pyrogallie Acid, Gas-light and Bromide Papers. Try them yourself and see how good they are.

Agfa

BETTER
 ROLL FILM
 FILMS PACKS

AND PHOTOGRAPHIC PRODUCTS
 AGFA LTD., 91 New Oxford Street, W.C.1

C.F.H.

THE SOUTH OF ENGLAND COLLEGE OF PHARMACY
 186 CLAPHAM RD., LONDON, S.W. 9

Principal: H. LUCAS, Ph.C., F.C.S.,
 assisted by a fully qualified and competent staff.

EXAMINATION RESULTS.

At the April Examinations held in London this year, 52 candidates from this College were successful. Major, 1; Qualifying Exam., 22; Prelim. Scientific, 29. Revision Courses started August 8th. Fee, 6 guineas. New Six and Nine Months' Courses started on Oct. 9th.

For all particulars apply The Principal.



See last week's
 "C. & D.," page 48,
 for
 Special Bonus Offer.
 CENT. per CENT.
PROFIT

MILNER & COKE, Ltd.
 (Incorporating The Greenwich
 Lemonade Co.),
 11 JOHN PENN STREET,
 LONDON - S.E.13.
 Telephone: Greenwich 0947.

2/- per dozen.

21/- per gross.

PATENT FOODS

SPECIAL FOODS DEVISED. ENQUIRIES INVITED.

George King & Co., Ltd., Sycamore St., London, E.C.1

Phone: Clerkenwell 3383.

Wires: "Foodkings, Barb, London."

IN TINS OR TONS



JOHN BELL, HILLS & LUCAS LTD.
OXFORD WORKS, TOWER BRIDGE ROAD, LONDON, S.E.1.

130 years' reputation for purity and excellence.
Pharmaceutical preparations, Drugs and Chemicals of high quality.
Packed Goods of elegant finish and Choice of many styles.
Specialists in compounding and packing customers' private formulas.
Price List on application. Telephone: Bermondsey 1141.

FRED K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SHELLACS ALL GRADES.

REMOVES
GREASE,
OIL,
PAINT,
TAR, &c.,
from
CLOTHES,
FABRICS,
SHOES.

TEMPLETON'S
KLEN-GREZ

Retails at 1/-

James Templeton & Co.
40 Battlefield Rd., Glasgow,
S.2

SAVES SOAP
SAVES TIME
NON-
Inflammable
PLEASANT
ODOUR
FIXES DYES



GREY HAIRS

← appear just here.

TOUCH THEM UP WITH

TATCHO-TONE

and they will instantly recover their
natural shade. Medical Guaranty with
each bottle. Chemists' Prices 2/6 and 4/6

TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2



PUFFS of ALL KINDS in DOWN and WOOL.
SOLID FACE POWDERS

COMPLETE WITH PUFFS.

Inquiries invited by makers,

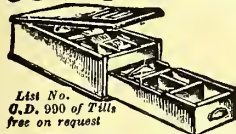
F. SCHUTZE & CO., Ltd.

BLACK BULL WORKS,

Caledonian Market, London, N.7.



SENT ON 14 DAYS APPROVAL



List No.
Q.D. 990 of Tills
free on request

upon receipt of cash or two wholesale trade
references. "LITTLE BRILLIANT" TILL
Improved 16 x 8 x 6 ins.
mahogany, highly polished, lock
to lid and drawer, warning bell,
secret catch and check action.

32/-

Coils 2 1/2 ins. wide 4 1/2 doz.

DUDLEY & COMPANY, LTD.

558-576, Holloway Road, London, N.7.

THE CHEMIST'S MONOPOLY—

P.P.T. PY-SHAN POINTS TEA
SECURES YOU REGULAR CUSTOMERS
5d. per lb. PROFIT or 7d. per lb.
when cash accompanies order.

THOS. CHRISTY & CO., 4/12 Old Swan Lane, E.C.4

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's
Ailments is advertised so extensively in the daily
and weekly Press as to bring mothers to the
retailer without effort on his part.

The selling has been done before the mother
reaches the chemist, and, having supplied her, it
is only common sense to claim she will buy other
family necessities from him. Moreover, the con-
tinuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

BOB MARTIN'S
TASTELESS

CONDITION POWDERS

show a profit of 38%

and are advertised in daily papers having
a combined sale of more than SEVEN
MILLIONS a day.

Bob Martin's '92 Ointment now replaces
the well-known Mange & Eczema Lotion;
Shilling tins in attractive Display Outers;
sells readily and very steadily.

BOB MARTIN, LTD., SOUTHPORT, LANCs



just a
 "scoop" with
 this filler and
 into the carton—



Simple, isn't it? And it is just this simplicity that has caused hundreds of chemists already—within 3 weeks of its introduction—to adopt this highly profitable scheme.

GLOSSETTES are supplied to you in bulk, complete with sufficient half-ounce cartons (same size as any usual 4½d. tin) to take the whole quantity. This labour-saving filler, holding almost exactly half an ounce, is also supplied free. There is thus no tedious weighing—just a scoop with the filler and into the carton. It takes less than ONE MINUTE to complete a dozen cartons.

Each carton costs 1½d. (or less, on "best terms") and sells for 3d.

Beautifully executed window show-screen-full of "force," and a special miniature screen for the counter, available—plus 10/6 payment for display.

Send a postcard NOW for details.

ERNEST JACKSON & CO. LTD.

LONDON DEPOT
 Plantain Place.
 Crosby Row
 Boro. S.E.
 Phone. HOP. 2668.

MANUFACTURING CHEMISTS
Makers of Lozenges, Pastilles & Compressed Tablets
CREDITON. DEVON.

Telephone
GREDITON 10
 ...
 Telegrams
JACKSON.CREDITON

Potter & Clarke,
Ltd.

60/64 ARTILLERY LANE, LONDON, E.1
Phone: Bishopsgate 4761. Grams: "Horehound, Phone."
and at 24 LUNA STREET, GT. ANCOATS, MANCHESTER

Arnaud's Pot Pourri
of

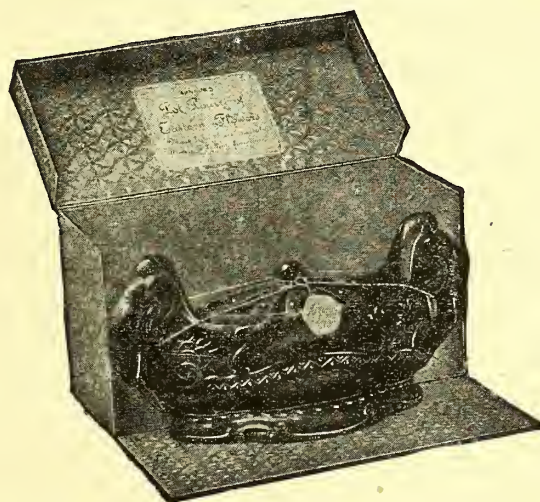
Old English Flowers

in a beautiful assortment of styles.

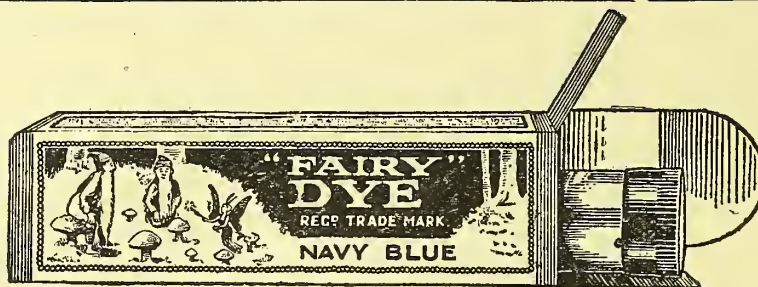
THE ELEPHANT BOWL

WITH PERFORATED LID.

Our Exclusive Design in Art Stone.



Send for list of complete series printed in natural colours
and actual sizes.



FAIRY DYES

Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

THERE is no more attractive line on the market to-day—there is no better seller—and no article has made larger strides in popular favour.

FAIRY DYES

are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

For Trade Terms and particulars write to

FAIRY DYES, LTD.

61 WELL ROAD,
GLASGOW.

London Depot - - - 292 UPPER STREET, ISLINGTON, N.1.

One of
TIPPER'S
"3 Tips!"



MASSAGING THE UDDER WITH

COWS RELIEF

In tins, 14/-, 21/-, & 45/-

TIPPER & SON, LTD., VETERINARY CHEMICAL WORKS
BIRMINGHAM.



Ask for "PAZO"

PILL BOXES

The most convenient and
secure Pill Box obtainable.

NO LOOSE BOTTOMS

Samples and Prices on application

The "PAZO" CO., Oldbury

7,000,000 DOGS & CATS

There are 3,500,000 Dogs in the United Kingdom, and no doubt as many—if not more—Cats. This means that one house in every three contains a Dog or Cat. In your district alone there are thousands of men and women who spend regularly to keep their pets in healthy condition. Are you reaping the benefit of this regular and profitable business? If not, stock up now and display

**SHERLEY'S DOG & CAT MEDICINES,
LACTOL, LACTOL BISCUITS, &c.**
(P.A.T.A.)

Helpful sales aids—extensive National Press Advertising, Showcards, Counter Literature, Cut-outs, &c.

Price List and Terms from

A. F. SHERLEY & CO. (1928) Ltd., 18 Marshalsea Rd., S.E.1

Now Ready— the 1929 Edition

The
1928 Edition
was exhausted
early
and many
customers
were
disappointed

Place your
order
NOW

The book that brings more photographic business. Thoroughly revised and its usefulness increased by the addition of several new features. It makes the beginner expert and the expert keener than ever.

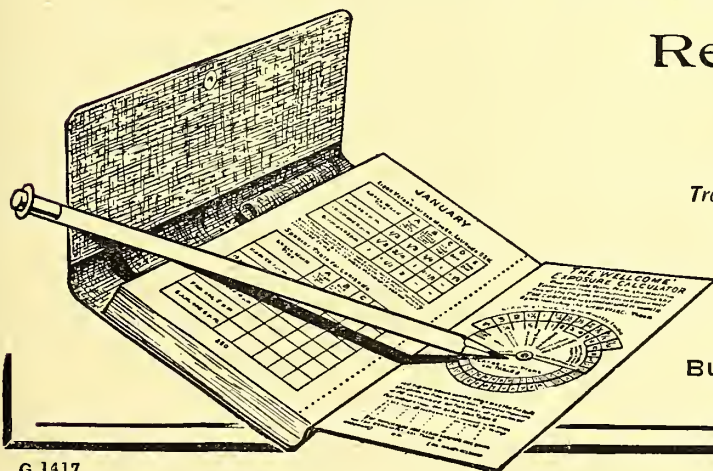
NEW 1929 EDITION 'WELLCOME' Photo Exposure Calculator HANDBOOK AND DIARY

To-morrow's business depends upon the foresight of to-day. The pharmacist who looks ahead will get supplies and put them on show now. Each year more and more photographers realise its value. There is no better photographic business builder.

Retail Price

1/6

Trade Price, 16/4 per dozen
(subject)



BURROUGHS WELLCOME & CO.
LONDON

WARRICK BROTHERS, LIMITED

AMULETS.
CACHETS & APPARATUS.
CACHOUS.
CAPSULES.
CHANTICLEER PASTILLES.
CHAPIREAU'S CACHETS.
CHOCELLÆ.
CINET GOODS.
COMPRESSED TABLETS.
CRYSTADES.
EAU DE COLOGNE.
ESSENTIAL OILS.
EXTRAITS AUX FLEURS
FIZZLETS. (*Suspended.*)
FLEXETTES.
FLEXOIDS.
FRAGRETS.
JAPADUMS (CINET).
LOZENGES.
LUBRILAX.
NORETS.
NOSTRONES.
ORIFORM LOZENGES.

OTTOLETTES.
PASTILLES.
PERFUMES.
PERFUMETTES.
PERLES.
POMADES (FLORAL).
POT POURRI (CINET)
PULVELLÆ.
REFRESHLETS.
ROSE WATER.
SACHETS.
SYNTHOROSE.
TOILET SOAPS.
WALMSLEY CLEANING
PADS.
ZEPHYR BUTTONHOLES.
ZOMBS.

Also Special Agents for
JELLOIDS.
IRON JELLOIDS.
DULCILAX.
MADDOCKS' PERFUMERY.
HENDRIE'S

6 Nile Street, City Road, London, N.1

Telephone : CLERKENWELL 2452.

Telegrams : "WARRICKERS NORDO, LONDON."

CORRESPONDENCE FROM OVERSEAS SOLICITED.



A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single copy, 9d., post free; *Diary*, 10s., post free. Postal Orders and Cheques should be crossed "Bank of Liverpool and Martins, Ltd."

TERMS FOR ADVERTISING may be obtained on application to:

Head Office: 42 CANNON STREET, LONDON, E.C.4

(Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617.)

Branch Offices: 4 Cannon Street, Manchester. (Tel.: City 52.)
54 Foster's Bldgs., High St., Sheffield. (Tel.: 22458.)
19 Waterloo Street, Glasgow. (Tel.: Central 2329.)
Melbourne and Sydney, Australia.

Contents	
No. 16	Series 2541 Vol. 109
BIRTHS PAGE 490	Legal Reports PAGE 482
Books, New 495	Manchester Pharmaceutical Association 488
Business Changes 479	Marriages 490
C. & D. Commercial Compendium 505	Mechanical Prescribing 487
Coming Events 494	Medical Hydrology 486
Correspondence:—	New Companies and Company News 483
Letters 503	North London Social Observations and Reflections 491
Dispensing Notes 504	Personalities 490
Legal Queries 504	Pharmaceutical Society of Ireland: Council Meeting 484
Subscribers' Symposium 504	Proprietary Articles Trade Association 481
Miscellaneous Inquiries 504	Recent Patents 497
Deaths 490	Retail Pharmacists' Union 481
Editorial Articles:—	Retrospect 504
Economy in Excesses 492	Sandwood Oil Question 496
The Position of Shellac 493	Scottish News 481
English News 479	South African Medical Pharmacy Act 494
Ergot Imports Case 497	Trade Marks 489
Federation in British West Indian Pharmacy 495	Trade Notes 489
Gazette 483	Trade Report 499
Insurance Act Dispensing 498	Winter Session 485
Inventions' Exhibition 485	
Irish News 480	

Business Changes

JOHN BRUCE (CHEMISTS), LTD., have opened a business at 30 South Street, Isleworth.

MR. M. T. WATSON, chemist and druggist, has opened a business at 7 Rowcroft, Stroud, Gloucestershire.

MR. G. V. TOOMEY, chemist and druggist, has purchased the business of Mr. F. H. Newton, chemist, 35 Catherine Street, Salisbury.

HEDGES (CHEMISTS), LTD., 10-12 Dale End, Birmingham, have acquired the business of Mr. S. G. Clark, chemist and druggist, 313 Alum Rock Road, Birmingham, and will carry it on as a branch.

MR. GEORGE W. STIRLING, chemist and druggist, has taken over the business of the late Mr. A. J. Ely, of Nairobi, Kenya Colony. Mr. Stirling is a native of Edinburgh, and before going to East Africa was with Duncan, Flockhart & Co.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Committee for Scientific and Industrial Research

The Lord President of the Council has appointed Sir David Milne-Watson, LL.D., D.L., and Mr. Robert Whyte Reid, C.B.E., M.I.M.E., to be members of the advisory council to the committee of the Privy Council for scientific and industrial research, in the place of members who have retired on the completion of their terms of office. Sir James Hopwood Jeans, D.Sc., LL.D., has been reappointed a member for a further period of one year.

Aspirin Poisoning Case

At Hayes, Middlesex, Town Hall, on October 9, an inquiry was held into the circumstances attending the death of Marjorie T. Godfrey (22). Hayes. Dr. Fitzgerald said he was called to see Miss Godfrey on October 4, and, in his opinion, she was suffering from hysteria. He saw her again the next morning about half-past ten. She was then in an extremely collapsed condition suffering from cardiac and respiratory failure. He treated her with injection of strychnine, gave her stimulants, and did everything possible for her, but she passed away at twelve o'clock. Death, in his opinion, was due to an overdose of aspirin tablets. Deceased's mother drew his attention to bottles in a drawer sufficient to contain 175 five-grain tablets, about 800 grains of aspirin. During the night deceased had vomited a large quantity of fluid, which, in his opinion, contained a considerable quantity of aspirin—enough to account for her death. The Coroner: How much do you think?—Witness: I should think 300 grains at least of aspirin were vomited from the stomach. How much would kill?—Considering she was suffering from Raynard's disease, I think 100 grains in her case would have been a fatal dose taken over a period of possibly forty-eight hours. She must have had a very large dose just before I saw her or just after. I think there is no doubt she was temporarily insane through the pain caused by Raynard's disease. The Coroner: No patient would take such a number as that for headache?—I think it is quite possible considering she was suffering from hysteria she may not have thought such a dose would be harmful. People have the idea that aspirin is a harmless drug. In her case they should not have been taken unless under the direction of her medical attendant. The Coroner: She would not have taken such a dose as that unless she meant to kill herself?—When I saw her I think she was temporarily insane. I think there is the possibility she may have been in such intense pain from Raynard's disease that she may have taken aspirin to give her relief and instead of doing so it made her worse. Evidently the aspirin tablets were purchased from various chemists. The Coroner: Aspirin poisoning was the cause of death?—I have no doubt. Self-administered?—Yes. The Coroner found that death was due to aspirin poisoning, self-administered, and returned an open verdict.

Contracts

The following tenders have been accepted by the bodies named:—

Alcester Guardians.—Mr. H. D. Adcock, chemist and druggist, and Rothband & Co., Manchester, medical supplies.

Alresford Guardians.—Boots, Ltd., drugs, etc.

Belper Guardians.—Calvert & Son, chemists, drugs.

Bridge Guardians.—Mr. V. G. Stockwell, chemist and druggist, drugs.

Canterbury Guardians.—Boots, Ltd., drugs and sundries.

Coventry Guardians.—Wyleys, Ltd., drugs; T. J. Smith & Nephew, Ltd., dressings; Albert Browne, Ltd., sundries; Mr. W. A. Bales, chemist and druggist, drugs, etc.

Dorchester Guardians.—Mr. W. S. Spicer, Ph.C., dressings.

Eton Guardians.—Walden & Drewitt, chemists, Slough, drugs, etc.

Faversham Guardians.—Mr. R. G. Eacott, chemist and druggist, Sittingbourne, drugs.

Guildford Guardians.—Mr. W. Massey, chemist and druggist, drugs, etc.; A. Berton, Ltd., surgical goods; A. Browne, Ltd., dressings.

Hawarden Guardians.—Cheers & Hopley, chemists, Chester, drugs, etc.

Malling Guardians.—B. Pratt & Co., Ltd., sundries.

Malvern Urban Council.—Boots, Ltd., drugs.

Peterborough Guardians.—Boots, Ltd., drugs.

Richmond (Surrey) Guardians.—Robert Bailey & Son, Ltd., dressings.

Steving Guardians.—Baiss Bros. & Co., Ltd., drugs and surgical requisites.

Winchester Guardians.—Boots, Ltd., sundries.

Bradford

Shopkeepers are warned against a man who visited certain Bradford shops, recently, stating he was a detective and demanding to take notes, which he said were bogus ones in circulation, to the Town Hall.

Tradespeople in Darley Street, Bradford, have sent a petition to the City Council protesting against the Watch Committee's proposal to introduce the one-way traffic system in Darley Street, on the grounds that it would seriously affect trade.

The recently issued syllabus of the Bradford and District Branch of the Pharmaceutical Society promises an interesting winter session. There are to be two addresses on current pharmaceutical affairs by members of the Society's Council—Mr. John Keall, on October 25, and Mr. Arthur Jenkin, on February 14. November 14 is to be given over to a social evening, and the usual annual whist drive and dance is arranged for January 23. December 6 is an open evening, likely to afford members an opportunity for discussing local or national pharmacy problems, worries or grievances. March 21, the final evening of the session, is that of the annual business meeting and election of officers.

Miscellaneous

MARKETING BRITISH GOODS.—An advisory committee has been appointed by the president of the Board of Education to consider the problem of education for salesmanship in connection with the marketing of British goods and services at home and overseas. A number of prominent men have been appointed to the committee, including Mr. W. J. U. Woolcock, C.B.E.

SCHOOL OF PHARMACY FOR WOMEN.—The Gordon Hall School of Pharmacy for Women held a meeting on October 17 at the Friends' Meeting House, Euston Road, London, for the opening of their new premises in Drayton House, Gordon Street, W.C.1. The chair was occupied by Mr. R. R. Bennett, B.Sc., F.I.C., chairman of the British Pharmaceutical Conference, who introduced Lady Barrett, M.D. Lady Barrett, in the course of a delightful speech, emphasised the necessity for individual thought among students, and hoped that many there would undertake research work. After votes of thanks tea was served, and an inspection of the building followed.

IN THE COURTS.—At the Old Bailey, London, on October 11, Albert Smith and John A. Morris pleaded guilty to stealing cocaine (*C. & D.*, October 13, p. 450). Sentence was postponed on the former, and the latter was sent to Borstal for three years. George J. Smith was found not guilty of receiving the cocaine and was discharged.—At the Old Bailey, London, on October 16, J. W. Banbury, chemist and druggist, was sentenced to ten months' imprisonment in the second division for performing an illegal operation.—At Salford Quarter Sessions, recently, William Creeley and John A. Hollingworth were respectively sentenced to twelve months' hard labour and bound over for attempting to break into the premises of Butcher & Simmons, Chapel Street, Salford, Manchester.—At Reading Police Court, on October 15, Henry Marsh and William Fluck were sent for trial on a charge of attempting to break into the shop of Mr. B. H. Butler, chemist and druggist, London Road.

Irish News

Drug and Medicine Imports

From the official import returns lately issued by the Irish Free State Ministry of Industry and Commerce the following special table has been compiled to show the quantity and value of drugs, perfumery, medicine, druggists' wares, etc., imported into the Free State during the six months ended June last compared with the corresponding period of 1927.

	January to June			
	1927		1928	
	Quantity	Value £	Quantity	Value £
Boric acid .. cwt.	115	244	250	542
Acids, other ..	3,253	4,288	4,197	6,091
Cream of tartar ..	2,718	11,078	2,666	12,299
Ammonium compounds .. cwt.	425	1,216	890	1,661
Perfumery containing spirit .. lb.	15,169	5,309	16,794	5,880
Other perfumery ..	211,314	32,656	338,628	39,952
Medicines and preparations, dutiable	—	54,129	—	54,087
Medicines and preparations, non-dutiable ..	—	107,168	—	113,939
Druggists' wares ..	—	16,995	—	18,907
Linseed oil (unrefined) cwt.	4,977	9,390	5,132	9,470
Linseed oil (refined) cwt.	6,759	13,199	7,695	14,202
Castor oil ..	1,802	8,353	1,626	8,112
	—	£264,025	—	£285,142

As will be seen from the tables, every item but two shows an increase, the six months' imports having advanced in the aggregate to the extent of £21,117.

Pharmaceutical Society of Ireland

The following are the results of the October examinations:—

PHARMACEUTICAL LICENCE EXAMINATION.—*Passed with Honours*: Michael J. Mulreany. *Passed* (arranged in order of merit): John T. Leahy; Thomas Stewart; Timothy A. B. Foley; Charles Henry Batt. Nineteen candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION.—*Passed* (arranged in order of merit): Patrick J. Molloy; William J. Magee; Maureen C. Fox; Matthew Cullen. Five candidates were rejected.

REGISTERED DRUGGIST EXAMINATION.—*Passed* (arranged alphabetically): Ernest Dawson Attwooll, John Curran, Joseph A. Dillon, Thomas J. Keatings, Michael MacElroy, James Dermot O'Reilly, Patrick J. Sheehan, Samuel Young. Three candidates were rejected.

PRELIMINARY EXAMINATION.—*Passed* (arranged in order of merit): Niamh O'Connell, John Francis Cranitch, Jeffrey Shea. Three candidates were rejected.

Brevities

Queen's University, Belfast, announces that the following pharmaceutical candidates have passed the matriculation examination:—Jane W. Ireland, William A. Norris.

A new form of licence for pharmaceutical chemists in Northern Ireland has been issued by the Ministry of Home Affairs, Belfast. It is more attractive in appearance than the old licence, and the change is welcomed.

At Dungannon Quarter Sessions, Henry J. McFlynn, North Street, Pomeroy, pleaded guilty to the larceny of a scythe blade and hag, the property of Mr. John F. Grimes, J.P., chemist and druggist, Pomeroy. McFlynn was sentenced to one month's imprisonment, with hard labour.

Among those who were presented to H.R.H. Princess Mary, at Portadown, on October 11, was Mr. J. Sandford, Ph.C., vice-chairman of the Urban Council. In honour of the visit of Her Royal Highness to Belfast, many of the city pharmacies were decorated with flags and bunting.

At Antrim Petty Sessions, on October 10, the London Midland & Scottish Railway prosecuted W. Reville, 27

Charlotte Street, Ballymoney, a chemist's assistant, for having travelled from Greenisland to Ballymoney, without having paid his fare, on August 22. The court fined defendant 40s., with 20s. costs.

Mr. Horatio Todd, M.P.S.N.I., ex-president of the Northern Pharmaceutical Council, had the honour of presenting to Princess Mary, at Belfast, on October 13, a variety of Ulster perfumes, manufactured by himself, which Her Royal Highness was graciously pleased to accept. Mr. Todd was presented to Her Royal Highness at the Lord Mayor's reception in the City Hall on the same day.

Recently a serum was urgently required by Dr. Maguire, Kilkerran, co. Galway, for a patient, and a telegram was sent to Messrs. Boileau & Boyd, Ltd., Dublin, but it appeared that the telegram was never delivered. The Galway Hospital and Dispensaries Committee, on hearing a formal report on this matter, considered it serious. The postal authorities stated that the telegram was recorded as having been sent, but receipt at its destination could not be traced, and it was assumed that it must have gone astray at some point on the transmission. The chairman said great inconvenience had been caused by this failure of the Telegraph Department. The serum had to be rushed to Kilkerran by special ambulance from the Central Hospital in Galway, and it was fortunate they had a supply. The secretary said he had written to Dr. Maguire to know if the patient died or not. Pending a reply, consideration of the matter was adjourned.

Scottish News

Brevities

A correspondent writes:—"While ox liver, according to report, is in such demand that in Edinburgh it is fetching 2s. 8d. and in London 3s. per lb., it can still be bought at 8d. in most Scottish country towns. Even at that figure it is four times its pre-war price. What would the public say to a prescription at four times pre-war price?"

Treasurer Gavin Thomson, chemist and druggist, is one of the members of Campbelltown Town Council who fall to retire by rotation at the forthcoming municipal election. Mr. Thomson has been a popular and prominent member of this town council for a number of years, and there is a wide-spread desire that he will again offer himself for a further period of municipal service.

Aberdeen

Professor J. J. R. Macleod, who shares with Dr. Banting the honour of the discovery of insulin, has now been installed in the Chair of Physiology at Aberdeen University.

The turnover in the dispensing and drug department of the Northern Co-operative Society, Ltd., Aberdeen, for the year ending August 31, 1928, was £32,315 17s. 3½d., and the net profit £5,071 7s. 11½d. Both figures show appreciable increases over those of last year.

Edinburgh

Professor Kendal has taken up duty in the chair of chemistry at Edinburgh University in succession to Sir James Walker.

The Ancient Fraternity of Dyers in Linlithgow held its annual meeting on October 5, and Mr. Alexander Spence, M.P.S., chemist, Newington, Edinburgh, was re-elected deacon and treasurer. This is Mr. Spence's sixth term of office.

Fifeshire

Mr. Charles Stewart, chemist and druggist, High Street, Kirkcaldy, recently addressed the local Rotary Club on "Vitamins."

Mr. A. G. Adamson, chemist and druggist, West End, Kirkcaldy, has removed his branch shop in Links Street to more commodious premises on the opposite side of the road.

Proprietary Articles Trade Association

THE quarterly meeting of the Council of the Proprietary Articles Trade Association was held in London on October 11, the president (Mr. A. Higgs) in the chair. Separate meetings of the Manufacturers', Retail and Wholesale Sections preceded the full Council meeting. At the luncheon which preceded the meeting the president expressed the pleasure of the Council at the presence of the secretary of the Retail Pharmacists' Union. The chief business of the meeting was to consider the quarterly report of the Executive Committee. Among the matters dealt with in the report were the following:

Price Maintenance Work.—During the past quarter the Association's price-maintenance work has been continued unremittingly. Several hundred test purchases have been made, and, in numerous instances, the "cutters" sources of supply traced and closed. The quarterly report of the Council (referred to below) on this phase of the Association's activities shows that certain of the most notorious "cutters" in the country have found it difficult, if not impossible, to replenish their supplies of P.A.T.A. goods.

Propaganda Meetings.—Effect has been given to the Council's decision to continue during the coming session active propaganda work among retailers, and meetings in various centres have already been arranged. The Executive are satisfied that such meetings serve to make better known what has been and is being done by the P.A.T.A. in the sphere of price-maintenance work on behalf of the trade.

Statement of P.A.T.A. Conditions in Invoices.—The request made to members of the Manufacturers' and Wholesale Sections to place on their invoices a notification that acceptance of P.A.T.A. goods constitutes agreement to re-sell only in accordance with the conditions laid down by the Association, has met with an excellent response. The Committee consider that the general adoption of this procedure by manufacturers and wholesalers will be of material assistance in ensuring observance of P.A.T.A. conditions by distributors.

Gift Schemes.—The resolution of the Council that the distribution of gifts to customers purchasing P.A.T.A. goods is a breach of the Association's regulations has been amended to read: "It is a breach of the Association's rules for any dealer in P.A.T.A. articles to distribute gifts to customers purchasing such articles, to sell with them other goods at nominal price or below their market price, or to give a privilege of monetary value in respect of P.A.T.A. goods." This modification was made necessary by the practice adopted by certain dealers of selling an article at a purely nominal price to customers who had purchased other goods of a stated value.

Other Matters.—The report, which dealt with the Propaganda Committee, applications for the protected list, etc., was adopted. A detailed report on the Association's price maintenance work during the past quarter was read by the secretary. The Council expressed their approval of the activities of the staff and of the results achieved. The next meetings of Council were fixed for January 8, 9, and 10, 1929. This concluded the business of the meeting.

Retail Pharmacists' Union

Devon.—The annual meeting of the Devon Branch of the Retail Pharmacists' Union was held at Exeter on September 26, Mr. W. R. B. Arnold presiding. The annual report and financial statement was adopted, and the following were elected:—*Chairman*, Mr. G. A. Clarke; *Vice-Chairman*, Mr. A. C. Milton; *Treasurer*, Mr. S. S. Brown; *Secretary*, Mr. F. Southerden; *Auditor*, Mr. D. Reid; *Committee*, Messrs. F. E. Battershill and W. J. Shepperd (N. Devon), W. C. Bennett and F. March (Torquay), M. T. Foster and I. R. Phillips (E. Devon), W. E. Hollows and C. W. Tighe (Exeter), and P. F. Rowsell (Devon). It was resolved to recommend all members to co-operate in promoting the health week by exhibiting notices and by appropriate window displays.

Legal Reports

Rescission of Contract.—In the Chancery Division of the High Court, London, before Mr. Justice Eve, on October 17, the Walworth Pharmacy, Ltd., London Wall, sued A. W. Farquhar, 723 Old Kent Road, for specific performance of an agreement to purchase from plaintiffs for £250 the leasehold premises, 303A Camberwell Road, and the business of a chemist and druggist carried on there, or alternatively rescission of the contract and forfeiture of the deposit of £50 paid by defendant. Mr. Howard Wright, for plaintiffs, said the defendant had put in a defence and counterclaim by which he tried to set up a case of misrepresentation, but he did not appear now by counsel. Plaintiffs were asking for the alternative relief claimed. In November 1927 plaintiffs advertised the business and premises for sale in *THE CHEMIST AND DRUGGIST*, and defendant agreed to buy them for £250, which did not include the stock of drugs. He paid £50 deposit, and later asked to be allowed to pay the balance by instalments, which was agreed to. Defendant had paid one instalment of £75, but failed to complete the purchase, and by neglect had destroyed the goodwill of the business. His Lordship granted plaintiffs rescission of the contract, with forfeiture of the deposit of £50. He added that he would say nothing about the £75. Defendant was not there to ask for it back, and plaintiffs would retain it on account of their costs.

Debt Responsibility.—In the Bow County Court, London, on October 10, A. Boake, Roberts & Co., Ltd., manufacturing chemists, Carpenters Road, Stratford, E., sued Amy Kate Florence Watts, trading as Martin's Stores, Sheerness-on-Sea, a confectioner, to recover £14 4s. 11d. for essences supplied in November and December of 1926. The defendant pleaded that she was not indebted to the plaintiffs for the goods that were the subject of the claim, as they were supplied to her son, Frederick Henry Watts, who carried on business at premises adjoining hers. The goods were supplied to her son on his order, and it was well known, she alleged, that the business was her son's. Counsel for plaintiffs explained that the claim was for goods ordered by Mrs. Watts. This was simply a case of an undisclosed principal. In a previous letter she said that the son managed the business for her, but later said it was her son's business. Originally, they sued him, but, from inquiries they made, they decided eventually to sue her. Mr. Page, of the order department of Messrs. Boake, Roberts, said he knew the business of Mrs. Watts very well, and whilst he was quite willing to agree that the order came through Mr. Watts, it was well known that the business belonged to Mrs. Watts; in fact, the two shops were known as Martin's Stores. There had never been any actual change from Mrs. to Mr. Watts in that shop. Mrs. Watts, in cross-examination, agreed that her son was working for her in November 1926 and in March 1927 when she wrote the letters. There was an agreement between her and her son, but she had mislaid it. She was quite willing to pay this debt, although it was her son's. Judge Snagge said that, in view of that admission, he should give judgment for the plaintiffs for the amount claimed.

Medicine Vendors Acquitted.—At Preston Quarter Sessions, on October 10, Abraham Cohen and Lionel Cohen were acquitted of a charge of conspiring together to cheat and defraud (*C. & D.*, September 29, p. 386). Mr. George Hardy, described as a chemist, said defendants had purchased oils from his firm. The retail selling price of a bottle of oils sold by defendants for 2s. was 3½d. Counsel: Is that not rather high value for a patent medicine? I cannot say. Further questioned, witness said he knew "Secret Remedies," which gave the analyses of well-known patent medicines, with estimates of the intrinsic value of the ingredients used. Even assuming the analyses in that book were correct, the book itself was published twenty years ago, when the market price of ingredients was much less than now. Mr. T. R. Hodgson, public analyst, said defendants' mixture consisted of olive oil and sweet oil in quantities varying from 76 to 88 per cent., ammonia varying from 0.1 to 0.9 per cent., camphor from 17.2 to 21.1 per cent., and water from 1 to 2 per cent. Examined, witness said these oils did not come from the East. Olive oil

came from Italy, Spain and Tunis. Camphor came from various sources, and ammonia from the gas works. (Laughter.) Counsel for the defence said this vague charge of conspiracy was an absurd attempt to convict men who had done no more than boost the goods they sold. Many people sold medicines concerning which they made extravagant claims, and some had made fortunes in that way. Others had been knighted for their services. After evidence of the benefits received by a number of persons who had been treated by defendants, the case was stopped and a verdict of "Not guilty" returned.

Claim for Containers.—In the Southwark County Court, London, on October 8, before Judge Moore, Mr. H. W. Langmead, chemical merchant, 4 Baden Place, London, S.E., sued the Helia Chemical Manufacturing Co., Ltd., polish manufacturers, 10 Brighton Terrace, Brixton, London, S.W., to recover £12 12s., the balance of an account for cardboard containers for polish tins supplied. The plaintiff gave evidence, and said he was a dealer in raw materials for chemists and polish manufacturers, and the defendants ordered 20,000 cartons to be used for tins to contain polish. He did not deal in such materials, and obtained a quotation, which he submitted to the defendants, plus his profit. The written order was given on February 3, 1925, and the price was to be 28s. per thousand, in two colours. Two lots of 5,000 and 6,000 were delivered to the defendants, the second delivery being made in January 1926. Mr. J. Minuto, the managing director of the defendant company, then refused to take delivery of any further cartons. The cartons were printed with the name of the defendant company on them, and were useless for any other purpose. He did not voluntarily agree to order 20,000 on the off-chance of the defendants requiring more than 5,000. Mr. Langmead denied, in cross-examination, that he dictated the order to the managing director, who spoke English very badly. They were to be taken in regular 5,000 lots, although there was nothing in the contract to say when they were to be delivered. The custom of the trade, he understood, was to keep such goods for a year, when they could insist upon making delivery. They were still at the printer's works, and he had had to pay for them. He considered the defendants had had a reasonable time in which to accept the goods. Mr. J. Minuto gave evidence for the defence, and said he did not understand the contract, as he knew very little English. He asked for 5,000, and the plaintiff said he would have 20,000 done, as the price worked out much cheaper, and he did not care whether the defendants had the 5,000 or more. He would take the goods now if he was given time to pay. Judgment was given for the amount claimed, with costs.

Sale of Food and Drugs Acts.—At Southport Police Court, on October 8, Edith and Martha Hayward, confectioners, were summoned for selling meat and malt wine which, it was alleged, was not of the nature demanded. For the prosecution it was stated that a food inspector had purchased at defendants' shop a bottle the label of which bore the words: "Extract of meat and malt wine; guaranteed prepared from Liebig's extract of meat. This wine will be found invaluable as a stimulant to digestion, a tonic, and a food non-alcoholic." It was alleged that it was not meat and malt wine, and contained no wine of any kind. Defendants had not prepared the commodity themselves, but purchased it from the Liebig Standard Wine Co., Manchester, and had sold it in the same condition in which they purchased it. Mr. Herbert Davies, public analyst, Liverpool, said there was no legal standard of meat and malt wine, but the trade generally considered that it should contain at least 5 per cent. of a mixture of meat and malt extracts. This is not wine, said Mr. Davies. Essentially it is coloured sugar and water, though it does contain a mere flavour of meat and malt extracts, which I put down at 2 per cent. at the very utmost. Really, I think it is considerably less. It has got just enough to swear by, and, in my opinion, it is worthless as a tonic, medicine, stimulant, or anything else. The label is very misleading. The bottle originally purchased from defendants, and from which the sample for analysis was taken, was produced, and Mr. David Goldman, of the company who supplied the wine, pointed out that there was a certain

amount of sediment at the bottom. He claimed that the sediment represented the deficiency in meat extract mentioned in the analysis. Mr. Davies said it looked to him very much like mould which had grown because of the bottle being opened and the contents exposed to the air. It was submitted that the article was sold by defendants in the same condition that it was purchased by them. They were largely influenced by the name "Liebig" on the label, and having regard to the prices they paid, 3s. 6d. for a large bottle, and a corresponding price for a small one, they considered they were buying a first-class article. Mr. Goldman said the business was so-called because they specialised in Liebig's articles. He admitted supplying the goods which they themselves purchased from other people. Witness admitted that his family had more than half the shares in the business. They had not sold any of this particular article since 1926, in consequence of certain proceedings, and circulars had been sent to their customers stating that they would accept the return of any stock on hand and refund them in full. He did not know until to-day that defendants had not received a circular. The chairman said that the bench considered that the label constituted a written guarantee, and the charge would be dismissed.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

SHEFFIELD PHARMACIES, LTD. (P.C.).—Capital £500 in £1 shares. Objects: To carry on the business of wholesale, manufacturing or retail chemists and druggists, etc. The permanent directors are J. E. Crowe and Major J. Sewell. Secretary: Major J. Sewell. Solicitors: W. E. Leversedge, 3 High Street, Doncaster. R.O.: 882 Grimsthorpe Road, Sheffield.

G. J. JOHNSON, CASH CHEMISTS, LTD. (P.C.).—Capital £100 in £1 shares. Objects: To acquire from Maud F. Johnson the assets of Johnson's Pharmacy at 670 Romford Road, Manor Park, London, E.12, and to carry on the business of chemists, druggists, pharmacy proprietors, etc. The directors are G. J. Johnson, and Maud F. Johnson. R.O.: 670 Romford Road, Manor Park, London, E.12.

BARCLAYS CHEMISTS, LTD. (P.C.).—Capital £1,000 in £1 shares. Objects: To carry on the business of chemists, druggists, dispensers, drysalters, oil and colourmen, etc. The subscribers are:—J. Sloan, incorporated accountant; Doris Dumbell, accountant's clerk. The first directors are to be appointed by the subscribers. No share qualification required by a director who is a registered superintendent under the Poisons and Pharmacy Act, 1908. Secretary, T. E. Hughes. Solicitors, J. H. Neville, 100 Dale Street, Liverpool. R.O.: 30 Lord Street, Liverpool.

SAMUEL JONES & Co., LTD.—Mr. Norman Jones has been appointed a director.

THE SULPHUR SYNDICATE, LTD.—At a meeting held in London, on September 25, it was resolved that this company be wound up voluntarily. Mr. W. Weir, 1 London Wall Buildings, E.C., was appointed liquidator.

EDWARDS DENTAL MANUFACTURING CO., LTD.—In the Companies Winding-Up Court on October 15 Mr. Justice Eve made an order for the compulsory winding-up of Edwards Dental Manufacturing Co., Ltd., on the petition of the Amalgamated Dental Co., Ltd. Counsel said the petitioners were judgment creditors for £170. There were no appearances on the petition.

Voluntary Liquidation

The Hygienic Perol Co., Ltd., Bassishaw House, Basinghall Street, E.C., late 28 Rathbone Place, W., manufacturing chemists.—In pursuance of the provisions of the Companies Consolidation Act, 1908, a meeting of the creditors was held on October 9 at the Institute of

Chartered Accountants, Moorgate Place, E.C., when Mr. H. Rose, I.A., the liquidator of the company, presided. A statement of affairs was presented which disclosed liabilities of £2,679 6s. 3d., of which £883 16s. was due to unsecured trade creditors. There was an inland revenue claim amounting to £40 16s. 8d.; the bank were creditors in respect of an overdraft amounting to £146 2s. 7d.; loan creditors totalled £500; Mr. A. Jackson, a director of the company, was a creditor for £978 11s. in respect of advances and director's fees, and Miss P. Oakes was a creditor for £130 for remuneration. The only asset was a book debt amounting to £559 7s., which was due under an agreement with Bonnaire, Ltd., dated May 26, 1928. There was a deficiency disclosed amounting to £2,139 19s. 3d. With regard to the loan creditors, these were guaranteed by Mrs. Jackson, wife of the director of the company, and she had also guaranteed the bank overdraft up to £100. Mr. Rose reported the company was incorporated in September 1921 with a share capital of £499, all of which was paid for in cash. Trading accounts had been prepared, and for the period to September 1922 the turnover was £2,221; there was a gross profit of £910 and a net profit of £33, after charging Mr. Jackson's salary of £245. For the next year the turnover was £2,338; there was a gross profit of £849 and a net loss of £67. For the following year the sales were £3,526; the gross profit was £998 and there was a net profit of £93. For the year to September 1925 there was a net profit of £17 on sales of £4,713, and for the year to September 1926 the turnover was £6,317; there was a gross profit of £2,064 and a net loss of £22, after allowing £344 for Mr. Jackson's salary. Mr. Rose explained that during the company's trading a receiver had been appointed on behalf of debenture holders, and that had not helped the company in its trading. Up to December 1924 the company had continued fairly satisfactorily and generally made small profits. In December 1924 Mr. Jackson was introduced to a Mr. Mason, and the company eventually undertook to purchase a business in King's Road, Chelsea, and take over the premises, lease, goodwill and stock for the sum of £2,500. It was arranged that the company should pay by instalments, and in order to secure those instalments a debenture was given to Mr. Mason as collateral security. The company, however, did not meet its obligations, and by the end of 1926 they were in arrears with the interest owing on the debenture. The company went to the Court and tried to get an injunction to prevent a receiver being appointed under the debenture, but a receiver was appointed and the matter was eventually settled in May 1928. The debenture was for £2,500, which was made up of goodwill, £700; lease, £1,000; furniture, £300; and the balance was for the stock. Dealing with the amount owing by Bonnaire, Ltd., Mr. Rose said that they were a company which was not technically connected with the Hygienic Perol Co., Ltd., although Mr. Jackson was interested in it. Mr. Jackson's original intention was to pay all the creditors in full, but it was eventually arranged that Bonnaire, Ltd., should take over the assets of the company for the sum of £750, and they agreed to pay that money by instalments. After considerable discussion it was eventually resolved that an application should be made to the Court for the appointment of Mr. Granville White, of Francis Nichols White & Co., as joint liquidator with Mr. Rose. The following are creditors:—Gilbert McCaul & Co., £34; Toogood, Wm., Ltd., £23; British Drug Houses (The), Ltd., £78; Fasset & Johnson, Ltd., £24; Anglo-American Oil Co., Ltd., £21; Edwards, Wm., & Sons, £191; Cox, Arthur H., & Co., Ltd., £21; Parfumeries de Paris, Ltd., £36; Sadler & Moore, £61; Macleans, Ltd., £29; Butler & Crispe, £39; Illingworth, T., & Co., Ltd., £19; Reliance Rubberware, Ltd., £10; Evans Sons Lescher & Webb, Ltd., £11; Harker, C. R., Stagg & Morgan, Ltd., £12.

Gazette

Partnership Dissolved

BEVAN, W., and STOOKE, F. A., 124 High Street, Colchester, chemists and druggists.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 9. In the absence of Mr. F. J. Fitzpatrick (president), Mr. Denis J. Nugent (vice-president) presided. The following members of the Council were also present:—Dr. Michael Ryan (treasurer), Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. Michael J. Kieran, John J. Roche, P. J. Fielding, P. Kieran, Joseph Gorry, P. D. Larkin, Seumas Na Carra (J. J. R. Kerr), T. J. Doyle, James McCormack, Patrick Brooke Kelly, W. Gannon, P. A. Brady, John Smith, and D. Warwick.

NEW MEMBER WELCOMED

The VICE-PRESIDENT said he wished to welcome Mr. Brady to their meeting. He felt certain that Mr. Brady would be a useful member of the Council and would be of great assistance to his colleagues. He was glad to see the old members back.

Mr. BRADY expressed his thanks for his kind reception.

ELECTION OF PRESIDENT

The VICE-PRESIDENT proposed the re-election of Mr. F. J. Fitzpatrick, the outgoing president. Two years ago, he said, when he proposed Mr. Fitzpatrick as president, he said a number of flattering things about him, and at the time he felt that some members thought that what he said was exaggerated; but now, after two years, he thought he could stand up in that Council and say that any language he had used in connection with the president was fully justified. (Hear, hear.) He did not think that the Council had advanced under any other president more than under the presidency of Mr. Fitzpatrick. The membership had gone up; the receipts were magnificent, as was shown by their having £600 odd to put to their credit this year, a thing which very seldom happened; and the licentiates throughout the country had rallied to their standard and had supported the Council in these trying times. He did not think that any words of his could give adequate hope that any man who would go into the chair would surpass Mr. Fitzpatrick.

Mr. P. KIERAN said he had great pleasure in seconding. He could endorse every word that the vice-president had said.

Dr. MITCHELL supported the motion. The vice-president having made up his mind not to go on for the presidency, he did not think, he said, that they could get a better man than Mr. Fitzpatrick.

Mr. FIELDING: I should like to associate myself with that.

Mr. Fitzpatrick was unanimously re-elected.

ELECTION OF VICE-PRESIDENT

Mr. KERR said he had great pleasure in proposing Mr. Nugent as vice-president. If Mr. Nugent had been desirous of becoming president, there was not a member of the Council but would have supported his candidature. But with a very fine sense of self-depreciation and of loyalty towards the president he had stood down in his favour.

Mr. BROOKE KELLY seconded the motion, which was unanimously passed.

TREASURER AND AUDITOR

On the motion of Mr. GANNON, seconded by Mr. M. J. KIERAN, Dr. Michael Ryan was unanimously re-elected treasurer.

On the motion of Dr. RYAN, seconded by Mr. ROCHE, Mr. R. J. Kidney, F.S.A.A., was unanimously re-elected auditor.

COMMITTEES

On the motion of Mr. KERR, seconded by Mr. WARWICK, the committees for the coming year were constituted as in the previous year with the substitution of the name of Mr. Brady for that of Mr. Brown, and with the addition of the names of Mr. Gannon and Mr. Brady to the School Committee.

REGISTRATION

It was decided that Dr. P. J. Holmes, Killaloe, who wrote submitting the L.A.H. Diploma, should be registered as a pharmaceutical chemist.

CHANGES OF ADDRESS

The following notified change of address:—Mr. P. P. Buckley, Ph.C., and Miss Bridget Buckley, Ph.C., to 160 Church Road, North Strand, Dublin; Mr. James Corcoran, M.P.S.I., to 368 North Circular Road, Dublin; Mr. Allan Ingram, R.D., to Dunfanaghy, co. Donegal; Mr. G. H. Miller, Ph.C., to 143 Capel Street, Dublin; Mr. James Meban, M.P.S.I., to Fortwilliam Medical Hall, 82 York Road, Belfast; and Mr. J. A. Rourke, M.P.S.I., to c/o Maguire's Pharmacy, 87 Grafton Street, Dublin.

PRELIMINARY REGISTRATION

The following who submitted certificates from other bodies were admitted to Preliminary registration:—Miss Mary Josephine Matthews, Market Square, Maryborough; Michael Walsh, Kilmacow, co. Kilkenny; John Perry, 97 Lindsay Road, Dublin; Michael Joseph O'Rourke, 87 Lower Beechwood Avenue, Ranelagh, Dublin; and Michael J. Columbie, c/o Fielding's Pharmacy, 66 St. Patrick Street, Cork.

REPORTS FROM COMMITTEES

Reports from the School Committee, the House Committee, and the Certificates and Declarations Committee were received and adopted.

DEATH

The REGISTRAR (Miss E. C. Grene) reported the death of Mr. James Walker, Ph.C., High Street, Ballynahinch, co. Down.

IRISH IN EXAMINATIONS

Mr. KERR proposed in accordance with notice of motion:—"That on and after January 1, 1929, no examination be accepted in lieu of the Preliminary examination that does not include the Irish language." If they did not make a regulation to this effect they would, he said, be penalising their own examination. They would have candidates going in for other examinations in order to avoid Irish.

Mr. M. J. KIERAN seconded.

Mr. SMITH said they did not penalise their own examination. They got the same fee for registration. He did not see why they should go out of their way to put difficulties in the working of the Council by introducing this matter now when the new Pharmacy Act would probably have it all cut and dried for them. He thought they might leave it over until the new Act came into force. He proposed as an amendment that they defer the matter.

Dr. WALSH seconded the amendment simply because the new Act was coming so soon, he said. He agreed with the logic of Mr. Kerr.

Mr. SMITH said they would have certificates coming up after next January that did not include Irish, and he took it they would have to turn them down. He understood that the motion would apply to all certificates, no matter what time the examination was passed.

Mr. KERR said he was quite willing to correct the motion. He did not mean it to be retrospective.

Dr. WALSH: If you say "any examination passed after that date."

Mr. KERR agreed.

The VICE-PRESIDENT: We have compulsory Irish at our examination, and it sounds illogical if we take any other examination without Irish being on it.

Mr. SMITH: When I proposed the amendment it was my impression that any examination already passed would not be accepted.

Mr. KERR: No. What it meant was an examination passed after that date.

Mr. SMITH withdrew his amendment, and the resolution was passed in the following form:—"That on and after January 1, 1929, no examination passed after that date be accepted in lieu of the Preliminary examination that does not include the Irish language."

ELECTIONS AND NOMINATIONS

The following, proposed by the president and seconded by the vice-president, were elected to membership:—Mr. A. J. Byrne, Ph.C., Arklow, co. Wicklow; Mr. B. Noyck, Ph.C., 11 Greenville Avenue, South Circular Road, Dublin; and Mr. J. J. L. Robinson, Ph.C., c/o McCormack's Pharmacy, Monkstown, co. Dublin. Mr. G. F. Crilly, Ph.C., 12 West Street, Drogheda, proposed by Mr. Larkin and seconded by Mr. Warwick, was also elected to membership.

On the motion of the vice-president, seconded by Mr. M. J. Kieran, the following were nominated for membership:—Mr. Michael J. Broderick, Ph.C., 62 St. Patrick Street, Cork; Mr. James J. Dalton, Ph.C., c/o Mrs. Shevlin, Strokestown, co. Roscommon; and Mrs. B. R. McMichael, Ph.C., Ann Street, Ballycastle, co. Antrim.

On the motion of Mr. Larkin, seconded by Mr. Kerr, Mr. E. S. O'Connell, Ph.C., Cavan Street, Oldcastle, was also nominated for membership.

VICE-PRESIDENT COMPLIMENTED

Dr. WALSH proposed a vote of thanks to the vice-president for the expeditious manner in which he had got through the meeting.

The motion was adopted with applause.

The VICE-PRESIDENT: I am very glad to beat Mr. Fitzpatrick's record.

Associations' Winter Session

Birkenhead.—The inaugural meeting of the session and supper of the Birkenhead and Wirral Pharmacists' Association and Branch of the Society was held on October 10, Mr. F. C. Cooling (president) in the chair. He was supported by a large attendance of members. After supper Mr. H. Antcliffe, member of the Council, gave an address on "Current Pharmaceutical Topics," dealing fully with the working of the several committees of the Council. He made a special appeal on behalf of the Benevolent Fund, and congratulated the Branch on having doubled the amount of their contributions during the past year, and attaining the sixth place in the country for the average amount subscribed by the members. In proposing a vote of thanks to Mr. Antcliffe for his address, Mr. B. J. Cooper thought the Council ought to secure powers to bring into Court every case of infringement under the Pharmacy Acts, and that until the Society had powers to deal with the conduct of their own registered men, as other professional bodies, they would never attain the professional status to which their education entitled them. The election of a number of new members and associates brought the meeting to a close.

Hull.—The Hull Chemists' Association opened their winter session on October 11, when Mr. J. Oliver (president) held a reception followed by a whist drive. There was a good attendance. Commenting upon the syllabus arranged for the session, the president stated that he had obtained a promise from Mr. H. Skinner, the president of the Society, to attend their annual dinner in January. Dr. Stanley White was also to pay them a visit and address them on standardisation—chemical, physiological, and biological. The prize-winners at whist were Mrs. Steedman, Miss Hetheridge, and Messrs. Kirton and T. J. Bloom. The prizes were presented by Mrs. Palmer, wife of a past-president.

Walthamstow.—The annual meeting of the Walthamstow and District Pharmaceutical Association was held on October 10. All the officers were re-elected, and a general discussion took place on proprietary articles, price maintenance and cutting. It was thought that more pressure should be put on manufacturers who did not allow a fair and reasonable profit, stronger action taken to maintain fixed prices, and that to attain these and other objects more unity and backing in the rank and file of pharmacy was desirable.

LAVENDER as a legal "vegetable" has come to light again, this time in a London police court.

Exhibition of Inventions

FOUR years ago the first venture of the International Exhibition of Inventions was organised by the Institute of Patentees (Inc.), and the event has been so successful that it gives promise of becoming an annual one. The present (fourth) exhibition is housed at the Wesleyan Central Hall, Westminster, London, S.W.1, from October 10 to October 20 (inclusive), and anyone in the district with an hour or two to spare will find the visit a source of interest which is bound to create a sense of mental freshness. It cannot be denied that many of the contrivances are most aptly described as "gadgets," but, even with these, the dominant impression is that somebody finds the time and patience to elaborate ideas and break away from the orthodox in spite of the hustle in modern life.

The pharmacist on his rounds cannot avoid being attracted by articles of direct bearing to his calling, and many devices are most ingenious. "Sunshine" shaving soap gives expression to the idea of a combined soap and antiseptic grease in a novel fashion. From the centre of the stick a cylindrical core about one-eighth of an inch in diameter is bored, the soap removed, and the aperture filled with an antiseptic vaseline. It is claimed that the application of a cream after shaving is thus rendered unnecessary. A proprietary eye-wash prepared by the same firm is packed with an eye bath, so that the customer buys the complete outfit in one purchase. Another shaving invention is a new sponge rubber brush in which a piece of sponge takes the place of the ordinary bristles, and comfort is assured by having an air cushion between the handle and head. The Weblite vanity case is a novelty specially designed for the use of ladies in cinemas, theatres, cars or other places where lights are dim. A small electric light just over the mirror is the nucleus of the idea, and ingenuity is shown in finding room for the battery without increasing the size of the case, which embodies another idea in sifter boxes. A new patented solidified iodine stick is exhibited on another stand, the formula being of a greasy nature and the strength equivalent to that of the B.P. tincture. The advantage claimed is that athletes and others can carry the case about, without fear of breakage. There are innumerable suggested improvements for safety razors and blades. An improved hypodermic syringe adapted to refill itself automatically immediately a charge has been ejected, and whereby each fresh charge of liquid is drawn into the barrel otherwise than through the needle, can also be viewed. A combination comb and brush by which the operations of combing and brushing may be performed simultaneously or separately attracts public attention. An apparatus described as a "tooth paste dispenser" is a device for supporting a collapsible tube and adapted to engage and operate to squeeze the tube progressively for extruding the contents. It is constructed to hang on a wall, and a receptacle at the back could be used as a tooth brush rack. Of the photographic exhibits, by far the most arresting are the Ridgflex photographic albums. These are patented as being unbreakable and unstainable, and are put out in many different sizes.

Items of more general interest are abundant enough and thrilling enough to keep one so engaged that the passage of time is unnoticed. A pipe with a patent mouthpiece especially suitable for people with dentures and sportsmen, such as golfers, is already marketed. It enables the pipe to be held firmly between the teeth without fatigue and ensures an even bite all round, so keeping the denture well embedded. A hygienic brush encloses the bristles in a case when not in use and, when required, the brush is pushed out and exposed for use, the case forming the back of the brush. After use the brush is retracted into the case and effectually enclosed without any loose covers. An improved teapot (which might be handy for infusions, etc.) is based on the Thermos flask principle. The motorist will be intrigued by the multitude of signalling and other devices. The difficulties of administering medicine to pigs, dogs, etc., are overcome by an apparatus for which there should be a fair market.

Medical Hydrology

THE International Society of Medical Hydrology was founded seven years ago by Dr. R. Fortescue Fox, its first president, and still the chairman of its council. This year's annual meeting was held in England, the country of its birth. The first annual meeting was held here, but subsequent meetings have been in Holland, France, Czechoslovakia and Italy. Next year it is to be held in Budapest. The Society now embraces nearly 500 members in 29 different countries, eighteen of which have been represented in the recent meeting by some 140 members, including sixteen from Czechoslovakia, thirty-one from France, twenty-six from Germany, with one or two representatives from Greece, Japan, Russia and other countries. As a matter of policy, the chief functions of the annual meeting are held in the capital or other place which has no reputation as a spa; hence, the chief activities this year were in London, followed by a tour of the majority of the company to Harrogate, Buxton, Droitwich and Bath. The proceedings opened with a reception by the Right Honourable Lord Dawson of Penn, president of the Royal Society of Medicine, and by Dr. Kerr Pringle, president of the Section of Balneology at the Royal Society of Medicine, on October 9. An address was given by Lord Dawson and exhibits relative to balneology were provided by the Wellcome Museum of Historical Medicine. Next morning the Society met at the University of London. The vice-chancellor welcomed the Society to the University, followed by Dr. Alison Glover, who expressed welcome on behalf of the Ministry of Health. Lord Dawson was then elected President of the International Society for the year.

SUBJECTS OF DISCUSSION

The chief subject for discussion in the papers which followed was "The Relation between the State, the Health Resort and National Insurance." The British views were represented by Dr. C. W. Buckley, Buxton, who said that the spas offer the best means for the treatment of the common disabling diseases prevalent among wage-earners, clerks and professional workers. But their present resources are inadequate, and have not been developed or encouraged by the State, as in some Continental countries. In England they are too much regarded as the playgrounds of the wealthy, and not as the sanatoria of the nation, the spa hospitals being the only provision offered for the poor. The spa establishments are therefore of necessity run as trading concerns, and high charges are required for administration. Those who most need their assistance cannot obtain it from want of means. Insured persons will be helped by an extension of insurance benefits, to include spa treatment. The German opinion was expressed by Dr. Max Hirsch, Berlin, who referred to Russell's proposal in England to found seaside hospitals for the treatment of scrofula. Germany followed this example, especially when, on Beneke's recommendation, societies for seaside hospitals for children were founded, supported by private charity. The old army administration resorted one hundred years ago to spa treatment, primarily against rheumatic complaints and injuries. Spa treatment as an adequate part of health insurance is strongly in the ascendant in Germany. Legislation affecting medicinal waters in France was detailed by Dr. Ray. Durand-Fardel. Professor Umberto Gabbi described the control of the spas in Italy. Dr. Kahlmeter said that in Sweden there was no health insurance against sickness, but there was provision for assisting poor persons to obtain spa treatment. Dr. L. Schmidt said that the spas in Czechoslovakia were health resorts for the whole population of each country.

INTERNATIONAL STANDARDS

International standard measurements proposed at the annual meeting in Italy (see *C. & D.*, 1927, II, 571) were further considered on the recommendations of the Council, being presented by Dr. S. Judd Lewis, Ph.C., London. The first stage in this movement may now be considered substantially complete. It has been decided to adopt as the international standard for the ions or salines in the water, parts per million, that is, milligrams per litre or per kilogramme. It was also decided to incorporate in the proposed international tables a

column giving the ions or salines in terms of "millinormality" ($N/1,000$), the figure being obtained by dividing the number of milligrams per litre by the molecular weight of the ion or saline. In the third place, it was decided to continue to express the composition of a water in terms of salines as is common in all spa-water analyses, although all concerned admitted that the practice is unscientific and unsound. However, the majority thought it more practical for the medical man to think in terms of sodium carbonate and calcium chloride than in terms of sodium, calcium, chlorine and carbonic ions. To overcome the difficulty it has been decided to adopt an arbitrary international system for calculating the salines from the ions, so that the salines in the tables may have a constant value, even if that value may not represent truly the state of the ions and salts in the water. Dr. Ludwig Fresenius, Wiesbaden, read a paper describing such a system for the calculation of salts in waters, and most probably either this or some similar formula will be adopted by the International Society. Steps are now being taken to organise national committees in the various countries whose activities will be directed by the International Society with a view to regularising the whole system of reporting data relative to spas and other waters. A feature of the discussion was an appeal to promote also investigations of other possibly important factors, such as biological properties of waters, degree of ionisation, and other physical properties, and especially spectroscopic investigation with a view to discovering and working out the properties of elements occurring in only minute quantity. In the second medical discussion "The Humoral Factor in Disease (Neo-Hippocratism)" was discussed by Dr. M. B. Ray (London), Dr. Ferreyrolles (France), Dr. Cawadias (Athens), Professor Sarmento (Portugal), and Dr. Poulton (London).

THE TOUR OF THE SPAS

On October 12 the party, numbering a little over 100, moved on to Harrogate, where Dr. Edgecombe described the sulphur, saline and iron waters of that spa and the diseases to which they are applicable. This was followed by the third medical discussion on "The Treatment of Children by Waters and Baths," by various members of the Society. The social functions of the meeting included a motor expedition to Fountains Abbey. The following day the meeting proceeded by motor-coach to Buxton, where Dr. C. W. Buckley described the local spa, paying special attention to the recent analysis of the rare gases contained in the water, the peculiar feature being that no neon is found, which is in strong contrast to the gases obtained several years ago by the late Sir William Ramsay from the Bath spring. The question is of interest in determining the origin of these gases. The absence of neon appears to indicate that the gases are of geological origin and that they have not been washed down from the atmosphere. "Rheumatism as a National Problem" was the subject of the final international discussion at Buxton, where reports were presented from several countries and a programme of future activities was sketched out. A paper was also presented by Dr. Oskar Baudisch, New York City, on "The Mineral Springs of Mexico." The Society was entertained at Chatsworth by invitation of the Duke and Duchess of Devonshire. Droitwich Spa was next visited, and finally Bath. "The Waters of Bath" were described by Dr. Waterhouse, and a demonstration was given by Dr. J. M. H. Munro on the "Radioactivity and Rare Gases in the Waters."

A SMALL RESULT.—Although Southwark (London) Borough Council laid down 14,062 poison baits, 685 wire and 3,218 "break-back" traps, and employed dogs and cats in a campaign to exterminate rats, the total "bag" for the past twelve months only amounted to 1,840 rats and 60 mice.

"THE PESTLE AND MORTAR."—A house organ with the title "The Pestle and Mortar" has been started by the Sports Association of Howards & Sons, Ltd., Ilford. Well printed and illustrated and including among its contents articles of attractive types, together with the indispensable news prepared primarily for domestic consumption, it promises admirably to fulfil its purpose.

Mechanical Prescribing

The Diagnosi Therapeuticon

A MACHINE for the use of pharmacists in prescribing for common ailments was demonstrated by its inventor, Dr. E. Burnet, Harley Street, at a meeting of the National Association of Women Pharmacists, held at 17 Bloomsbury Square, W.C., on October 10.

Miss D. Hayes (president) occupied the chair, and those present included Mrs. Freke, a member of the Pharmaceutical Council, Mrs. Irvine, M.B.E., Miss Andrews, and Miss Hodgkinson (secretary). The chairman, introducing Dr. Burnet, expressed gratification at the representative character of the gathering, and referring to the fact that the doctor started his professional career as a pharmacist, added that as a consequence he would sympathise with the chemist's point of view.

Dr. Burnet, by means of diagrams, explained the working of his machine, which he had named the "Diagnosi Therapeuticon," and showed how, by pressing buttons representing certain symptoms, the machine could be relied upon to prescribe and also to give excellent advice. There was much amusement when in addition to producing a prescription the machine added a note to the effect that "medical advice must be sought at once."

Urging the utility of the contrivance, Dr. Burnet said he wished to deal chiefly with counter-prescribing. This must be, from the nature of the subject, purely symptomatic, because they could not expect the untrained pharmacist to judge a subject from the same point of view as one who had been specially trained, not merely to interpret symptoms as such, but to get to the bottom of the matter and trace from symptoms to causes. So long as human nature was human nature they would never put an end to counter-prescribing, and they must make up their minds, whether they liked it or not, that allowance must be made for it. There were many ailments of a minor character which chemists and druggists were first brought in contact with. Indeed, many an ailment seemed so trivial that it was not worth the expense and the time to go to a medical practitioner about it. For instance, they would never expect anyone with corns to go to a Harley Street physician. Such a person would go to a chemist. Having decided that counter-prescribing was a national institution which no Act of Parliament could do away with, the next thing was to make some attempt at standardisation. When a certain symptom was mentioned to a chemist, either through experience or hearsay, he associated it with some method of treatment or some specific drug, so that the process was purely a mechanical one. His machine was built much on the lines of a typewriter, but only had twenty keys. Each key had a letter, and each letter represented one symptom. The ordinary ailments met with in every-day life could generally be summed up by three radical symptoms. If therefore a customer went into a pharmacy complaining of some ailment the three symptoms of which the pharmacist was able to drag from him the machine would deliver the goods.

Dr. Burnet then gave a practical demonstration of the machine, which prescribed for several common ailments. The prescriptions were handed to members of the audience and caused astonishment mingled with amusement. Anything that was done mechanically could be reproduced mechanically, said the doctor, adding, amid laughter, that it was just as easy to add another machine to the one before them and use it for the actual dispensing. The only objection to counter-prescribing was that there was no standard method of prescribing. If they could only adopt a standard he thought there was no objection whatever to it. The only means of adopting a standard method, except by the institution of a great national centre where pharmacists could be trained and schooled on the same lines, was to have a mechanical counter-prescriber which would give the best that medical science could give in the way of medical prescribing. If they got to rock bottom causes of disease it would be easy to make a general standard of medical treatment throughout the country. In order to bring the subject home to his audience, Dr. Burnet then drew

attention to the economics of hygiene. Every child, he pointed out, was having spent on it time, money and labour, and that expenditure might be regarded as a capital investment with a view of future returns. If the child died before he had been able to repay the money which had been spent on him it was a dead loss to the community. Now only in very exceptional circumstances could a child provide for himself before he was eighteen or twenty. £2,000 was the amount worked out by actuaries as the value spent on a child. After working out the cost of maintenance during his working hours of life the net present worth of a young man's future earnings at eighteen came to not less than £6,000. Unless a youth lived long enough to pay back all that had been spent on him, which he could do, first, by investing capital himself in starting a family, and secondly by personal savings, there was a certain loss which could be expressed in pounds, shillings and pence. Assuming that a young man started a family of his own, unless he could live long enough to bring up, clothe and feed them, and also save enough to keep himself and his wife until they died, there was a definite loss to the community. In London alone last year there were 15,460 deaths from diseases of respiration, so that if they only estimated the average value of each of those persons at £1,000, it meant that in London alone there was a loss in 1927 of something like fifteen and a half million pounds. And that did not represent the whole loss, because added to it was the loss incurred by the loss of wages during the time they were incapacitated before they were finally cut down. It had been very conservatively estimated that the loss from diseases of respiration by death and loss of work came to something like £150,000,000, and this loss was going on constantly year by year, and yet nothing was done about it. What, then, must be the loss throughout the British Isles as a whole? The Registrar-General had stated in his returns last year that most of the loss due to deaths from respiratory diseases were avoidable, and most of them began with a simple cold. The common cold was the greatest single cause of monetary loss to the nation, and greater than any other half dozen causes put together.

After explaining the nature and origin of colds, Dr. Burnet went on to speak of the great advance in medical science due to the discovery of the efficacy of vaccines. The wonderful immunity from disease in the late war was mainly due, if not wholly, to the way vaccines were used.

"Some of us," declared Dr. Burnet, "have for many years been doing our best to popularise this highly efficacious method of treating diseases of bacteriological origin, and it is quite possible that within a short time it will be possible to give to the man in the street an anti-catarrrhal vaccine for not more than half a crown." But that could not be done without the co-operation of those who were mainly responsible for counter-prescribing. The man who was suffering from a common ailment did not as a rule go to a doctor or a specialist, but to a pharmacist, and the latter had it in his power to help forward a cause which would, he hoped, have an enormous economic effect on the public at large.

After Dr. Burnet had answered several questions, a vote of thanks was accorded him with acclamation on the proposition of Mrs. Irvine, seconded by Mrs. Freke.

North London Social

THE North London Pharmaceutical Association held a dinner and reunion at the Restaurant Frascati on October 11. Invitations had been sent out to members only, and the gathering was essentially a family one. The company numbered 120, and the president (Mr. R. H. L. Watson) and Mrs. Watson received the guests. Mr. H. Skinner, for the president, welcomed four guests, including Mr. Vandivier, of New York. Apart from that there were no speeches, and the loyal toast was the only one proposed. Dancing commenced at 9.15 p.m., and continued until midnight. The evening passed very successfully, thanks being due to the assistant secretary, Mr. W. E. Swanston, for his organisation.

Manchester Pharmaceutical Association

Centenary Dinner

THE Centenary Dinner of the Manchester Pharmaceutical Association was held at the Midland Hotel on October 10. The company numbered ninety. Those present included Dr. Moberley, Vice-Chancellor of the Manchester University, Mr. E. Saville Peck, M.A., Sir Wilfred Sugden, M.P., Mr. Hardy (Maryport), Mr. Clubb (Liverpool), Mr. and Mrs. Walter Davies. The menu was beautifully printed and embellished for the first time with the new coat of arms of the Association.

THE TOAST OF THE EVENING

DR. MOBERLEY (Vice-Chancellor of Manchester University), in proposing the toast of the Manchester Pharmaceutical Association, congratulated the chairman on being the president of an older Association than the University, the latter being an infant almost, compared with the full-grown body which was celebrating its centenary. He enumerated the aims and objects for which the Association was formed, and he said from what he had been able to learn those admirable principles had been fully carried out during its long history.

THE PRESIDENT'S REPLY

MR. W. KIRKBY, M.Sc., the president, in his reply said that to-night was a time when one might consider

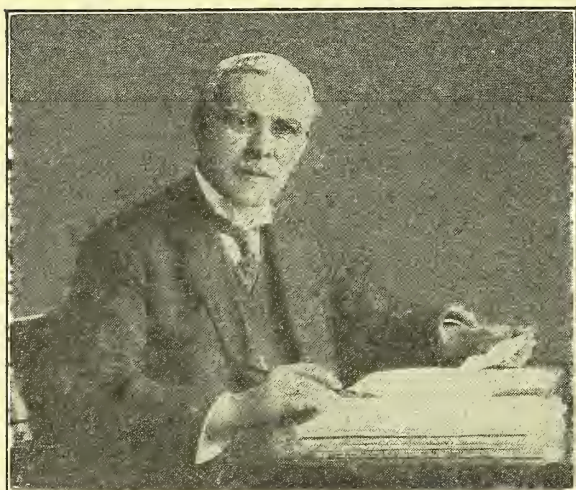


Photo.]

MR. W. KIRKBY, M.Sc.

[Cleworth.

and look back on the past. In fact, he would occupy considerable time if he were to recapitulate the many events that came uppermost in his mind, but he would content himself by saying that although they were not the first, Manchester had an Association in 1828. He then gave some most interesting information concerning its constitution, the names of some of the founders being still well known in local pharmacy. The main object, he said, of the formation of the Association seemed to be the protection of prices, for that seemed to crop up at every meeting. The price of Epsom salts and quinine were items discussed, and the price of quinine was fixed at 3s. 6d. a drachm. A custom prevailing in those early days was that every member who came late to a meeting was fined 6d., and to ensure that there was no cause for financial anxiety, each member had to pay £1 to the secretary at the commencement of each session. They also had an annual dinner, but that only cost 5s. per head. In 1841 the matter of pharmaceutical education came to the forefront, and ever since it has remained a matter of paramount importance. Classes were arranged by the Association, and finally, with the help and guidance of Dr. D. Leech, Professor of Pharmacology and Therapeutics, the present pharmaceutical

department was established at the University. The Association stood for improvement in education. Pharmacists were thus trained for public work, and the community greatly benefited by their service and advice.

THE CIVIC TOAST

MR. J. H. FRANKLIN, in proposing the toast of "The Lord Mayor and Corporation of Manchester," said he was struck by the growth of the civic conscience in the city during the past twenty years, and referred to the many admirable services now rendered to the community by the Corporation.

THE LORD MAYOR (Councillor Davy), in reply, said although Manchester was not an ancient city, when compared with other English cities, they were all proud of its history. Although all came in contact with only a very small number of the multitudinous interests that went on in the city, all could appreciate, he was sure, such sections as the Cotton Exchange and the Ship Canal, and the section that were never happy except when dosing the public with physic. He said that they were justly proud of the University and the Rylands Library. He could not help referring to the Royal Exchange as the backbone of the staple industry of the city. As a Manchester man he was very happy and pleased to be with the pharmacists to congratulate them most sincerely on the attainment of their centenary, and he wished them prosperity during the next hundred years.

THE PHARMACEUTICAL SOCIETY

Councillor R. G. EDWARDS proposed the toast of the Pharmaceutical Society. He paid a tribute to the advancement in pharmaceutical education and to the many plans of the Council. Although they had only 70 per cent. members they had hopes of better things in the future.

MR. E. SAVILLE PECK, M.A., in his reply, said that he had visited the pharmaceutical department at the University that afternoon, and had been greatly struck by the extraordinary progress that had been made during recent years. Manchester had always given a lead in matters of education, and they had shown their vision in linking their students up with the University. In Mr. Kirkby they had a man whose example, knowledge, experience and scholarship was an immense asset to the Association and pharmacy in general. Personally, he was particularly pleased to be present that evening, if it was only to pay a personal "thank you" to Mr. Kirkby, whom he had always looked upon and admired in pharmacy.

PARLIAMENT

Councillor F. W. BATES, J.P., proposed the toast "The Houses of Parliament." He said he really meant the House of Commons, which was the house that mattered to them. He was afraid that many Acts of Parliament were very loosely drawn up, for many of them had to be taken to the High Courts of Justice to ascertain really what was intended by their ambiguous phraseology. He looked forward to the time when pharmacy would be represented in the House of Commons by pharmacists themselves, for no one could deal with the problems except those with that necessary intimate and inside knowledge.

SIR WILFRED SUGDEN, M.P., in responding to the toast, commented on the work of the Ministry of Health. He thought that at present pharmacists had an excellent opportunity before them in seeking to conserve the food of the people. Conditions for keeping food in this country were appalling, for there was no proper hygiene and domestic refrigerators were practically unknown. Pharmacists here had a unique opportunity for applying their scientific knowledge to fight this weak spot in the maintenance of the public health.

During the various intervals between the speeches, a very enjoyable musical programme was provided by the following artists:—Miss Gwen Jones, Mr. Hamilton Harris, Mr. F. Leeming.

At the conclusion, Mr. E. H. Simmons, in moving that a very hearty vote of appreciation and thanks be given to the chairman (Mr. W. Kirkby, M.Sc.) for presiding at that function, said that it was very fitting that Mr. Kirkby should preside, for no one knew Manchester pharmacy better.

Trade Notes

"EDME" MALT EXTRACT WITH COD-LIVER OIL is advertised in this issue by Edme, Ltd., 122 Regent Street, London, W.1.

PLASMON, LTD., 66A Farringdon Street, London, E.C.4, inform us that the name of their preparation known as Plasmonta has been changed to Plasmona.

LEICHER, 11-12 Pollen Street, London, W.1, offer to send chemists a free supply of booklets which will be appreciated by their lady customers and react to mutual advantage.

BEMAX.—Particulars of a special bonus offer to chemists in connection with the forthcoming national advertising campaign for Bemax will be found on another page in this issue.

WINTER LINES.—R. H. Allen & Co., manufacturing chemists, Sydenham, London, S.E.26, in drawing attention to some of their "winter sellers," invite subscribers to write for their catalogue.

ITALIAN CRUDE DRUGS are offered by Mr. P. Whipman, 8 Cross Lane, London, E.C.3, sole agent for the Società Anonima per la Produzione ed il Commercio delle Piante Industriali, Aromatiche e Medicinali, Florence.

CUTEX BONUS.—Particulars of the bonus offered by J. C. Gambles & Co., Ltd., 211-215 Blackfriars Road, London, S.E.1, in connection with the Cutex Christmas gift sets will be found in our advertisement pages.

KAY'S ALMANACS.—Kay Brothers, Ltd., Stockport, announce that almanacs are again to be a feature of their winter advertising, and that chemists desirous of securing a (free) supply should write immediately to the sales manager.

OTOSCLEROL.—Coates & Cooper, 41 Great Tower Street, London, E.C.3, inform us that they have been appointed agents for the products manufactured by the Münchener pharmazeutische Fabrik, and that in future Otosclerol will be supplied in an English packing.

BOB MARTIN'S OINTMENT.—In the advertisement of Bob Martin, Ltd., which appeared in the Veterinary Supplement of last week's issue (p. 23), the trade price of Bob Martin's '92 Ointment (in 1s. tins) was given as 4s. 6d. per dozen instead of 9s. per dozen. Will our readers please note.

ARTHUR H. COX & CO., LTD., manufacturing chemists, Brighton, are sending out an illustrated price list of their specialities, and chemists who do not receive a copy in the course of a few days should write for one. Among the packed pharmaceuticals referred to—over 150—are a large number which are in frequent demand at this time of year.

ACE COMBS.—The American Hard Rubber Co., Ltd., 13a Fore Street, London, E.C., supply an ingenious showcase in wood, exhibiting in front, under glass, specimens of seven different styles of small combs. At the back of the case are seven wooden drawers, each containing one dozen combs of each of the styles shown in front.

BORIC LINT.—Southall Brothers & Barclay, Ltd., Chalford Mills, Saltley, Birmingham, have issued some notes dealing with the "Causes of Variation in Boric Lint," by Mr. A. W. Evans, B.Sc., works chemist. It is shown that although the variation allowed by the British Pharmaceutical Codex is 10 per cent. in boric acid, and twenty-three square inches in area per ounce, this apparently wide allowance is often insufficient for deviations which arise in manufacture. The various difficulties (weaving, bleaching, linting, impregnating, drying, weighing and wrapping), which are dealt with in detail, are of considerable interest to chemists, who should write for a copy of the pamphlet if one has not already been received.

MAW'S CHRISTMAS LIST, 1928.—A profitable field for the chemist is that of Christmas gift business, and S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C.1, have given special attention to Christmas goods. A glance at their recently issued list of fancy goods will broaden the chemist's scope during the Christ-

mas season by providing him with a wide range of goods, all of attractive quality, which will give satisfaction to the customer and yield a reasonable profit to the seller. Some of these lines are supplied with special Christmas packing. Particulars will be found in the list, and an invitation is extended to chemists to visit the showrooms of the House of Maw which have been specially rearranged for Christmas displays.

PHOSPHERINE (ASHTON & PARSONS), LTD.—On October 19 and in the ensuing week the proprietors of Phospherine, Ludgate Hill, London, E.C.4, intend announcing through the Press an original sentence-building competition in which the following prizes are offered: First prize, £1,000; second, £400; third, £150, as well as numerous consolation prizes. Printed copies of the competition announcement will be supplied to those chemists requiring them and window slips for display are also available. A condition of entry is that every competitor must purchase a phial of Phospherine (liquid or tablets) and send with the attempt the outer carton. An increase in sales is expected, and in anticipation of the additional demand orders should be placed as early as possible. Window show material will be sent on request.

CUXSON, GERRARD & CO., LTD., Oldbury, Birmingham, have placed on the market two new products of unusual interest—Thermoid anodyne plaster and Nucklets. The former is for application to the chest as a remedy for coughs and colds, and particularly as a local application for relieving pains, for which purpose its composition—it contains camphor, eucalyptus, menthol, pine oil and capsicum—is admirably suited. Each plaster, which measures 7½ in. by 5 in., is packed in two envelopes, the outer one illustrating and giving full directions of the manner in which to apply the plaster. Nucklets is another line which should become a "best seller." In the centre of a circular piece of adhesive plaster (¾ in. in diameter) is an antiseptic material (¾ in. in diameter), so that together they form an ideal dressing for small cuts and abrasions, particularly for those who are likely to knock the skin off their knuckles. To ensure a neat, well-fitting plaster the adhesive portion is slit in four places. Nucklets are packed in tins 2 in. by 1½ in. by ½ in., and are thus most handy for carrying about.

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," October 3, 1928.)

- "IGTOL"; for veterinary chemicals (2). "LACARNOL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 492,093/088.
- "LEUNAPHOS"; for fertilisers (2). By I.G. Farbenindustrie A.G., Mainzer-Landstrasse 28, Frankfurt-on-Main, Germany. 492,981.
- "SUL"; for chemicals (2). By L. C. Wallach, 16 Finsbury Square, London, E.C.2. 493,514.
- "VITA COD LIVER OIL" with design of sun and mountains and name and address ("Vita" disclaimed); for Norwegian medicinal cod-liver oil (3). By R. Schjølberg, Bodin pr. Bodo, Norway. 490,645.
- "WECO"; for insect repelling preparations for personal use (3) and for all goods (48). By Komo Chemical Co. Inc., 2,330 Weccaco Avenue, Philadelphia, U.S.A. 492,440/441. (Associated.)
- "OCCE-CRYSTINE" on strip label; for medicinal chemicals (3). By Occe-Crystine Corporation, 70 East 42nd Street, New York, U.S.A. 493,113. (Associated.)
- "FIGADEX"; for medicinal chemicals (3). By The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1. 493,708.
- "OCTORAY"; for medicated powders for outward application (3). By Edith D. Fitchew, 19 Chatsworth Gardens, Acton, W.3. 494,433.
- "FEEN-A-MINT" on label device; for medicines (3). By Feenamint Products, Ltd., Bush House, Aldwych, London, W.C.2. 493,257. (Associated.)
- "LIVER SALTS" on label device of man holding glass and towel and with words "Keep you in the Pink" ("Keep you in the Pink" disclaimed); for liver salts (3). "RAYGLO"; for surgical instruments, etc. (11). By Cupal, Ltd., King Street Bridge, Blackburn. 493,698/214. (Associated.)

Births

Notices for insertion in this column must be properly authenticated.

JACKSON.—On October 10, the wife of W. E. Jackson (Ernest Jackson & Co., Ltd., manufacturing chemists), Crediton, of a son.

Marriages

ORR—RUSSELL.—At St. Andrew's Church, Kimbolton, Huntingdon, on September 29, by Canon Powys Maurice, M.A., Harry Orr, M.P.S., Southport, to Alice Martha Russell, Stonely, Hunts.

SANDERS-BRIERLEY.—At Chamber Road Baptist Chapel, Oldham, on October 17, Alexander A. Sanders, chemist and druggist, to Doris M. Brierley, eldest daughter of Mr. C. F. Brierley, 309 Windsor Road, Oldham.

Silver Wedding

WIDDOWSON—ELLIOTT.—At the Parish Church, Lymington, on October 14, 1903, Thomas Stanley Widdowson (representative staff of Wright, Layman & Umney, Ltd.), to Mary, younger daughter of Mr. George Elliott, Lymington.

Deaths

ATKINSON.—At his residence, Princes Street, Ulverston, recently, Mr. William George Atkinson, chemist and druggist, aged sixty-six.

BALL.—At 2 Mornington Road, Southport, on October 13, the widow of the late Mr. Henry Ball, Ph.C., Southport, aged seventy-eight.

BETTLE.—At Askrigg, Yorks, on October 3, Mr. Joseph Alfred Bettle, chemist and druggist, aged seventy-seven.

CLARKE.—At Hampstead, London, N.W., on September 30, Mr. Albert Fisher Clarke, chemist and druggist, aged thirty-nine.

DAVIS.—At Warwick, on October 8, Mr. Albert Davis, chemist and druggist, aged seventy-seven.

HALKET.—At 4 Royal Crescent, Glasgow, on October 6, Dr. George Halket. Dr. Halket was well known to the older generation of local chemists as one of the founders of the Royal Samaritan Hospital, Glasgow, in 1836. Other three medical men were associated with him in a small hall in Cumberland Street with a shop in front which was used as the dispensary.

HOBSON.—At Bournemouth, on September 30, Mr. Edmund Hobson, Ph.C., aged sixty-three.

MADGSHON.—At Jarrow-on-Tyne, on October 10, Mr. Robert Madgshon, chemist and druggist, aged ninety-two. Mr. Madgshon, who was in business before 1868, claimed to be the oldest chemist in the North of England, and up to twenty years ago was in daily attendance at his Ellison Street establishment. He was a prominent figure in local Masonic circles.

PALMER.—At Ely, on October 5, Mr. Charles Edward Palmer, Ph.C., late of Croydon, aged seventy-three.

SUTHERLAND.—At 4 Learmonth Place, Edinburgh, on October 15, Mr. James John Sutherland, M.P.S., member of the firm of George Lunan, chemists, 20 Queensferry Street. Though taking no part in public pharmacy, Mr. Sutherland was an expert pharmacist, and had been with the firm for almost thirty years, first as an assistant, and latterly as a partner. He received his early training with Duncan, Flockhart & Co., North Bridge, and passed the Qualifying examination in 1896. He was well known to a large circle of medical clients in the West End of Edinburgh, where his advice in regard to dispensing was frequently requested. He had a long illness, lasting for over three months, and his death was not unexpected. He leaves a mother, and two sisters, and a brother in London, also a pharmacist, to mourn his loss.

Personalities

MR. A. LANDER, Ph.C., Canterbury, has been appointed Almoner of the United Industrious Masonic Lodge.

MR. J. T. APPLETON, chemist and druggist, Sheffield, has undergone an operation in a nursing home, and is going on satisfactorily.

MR. STANLEY JOHNSON, representative of Wright, Layman & Umney, Ltd., is leaving Forest Hill on October 20, and his address will be 15 Edingley Avenue, Sherwood, Notts.

MR. CHARLES H. CLARKE, chemist and druggist, Chepstow, Mon., has been appointed a magistrate for Monmouthshire. Mr. Clarke has been a member of Chepstow Urban District Council for thirty years and chairman for two years.

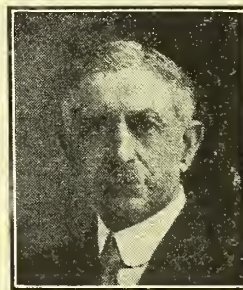
MR. THOMAS MARNs, chemist and druggist, member of the Pharmaceutical Society's Council, has been appointed sales manager of the Merchandising & Service Corporation, Ltd., 33 Banner Street, London, E.C.1. Mr. Marns will continue to control his retail shops, and undertake his various pharmaceutical activities.

MR. W. H. SAUNDERS, chairman of Ayrton, Saunders & Co., Ltd., is leaving England on the s.s. "Tambora" from Southampton on October 19 for an extended tour to Morocco, Colombo, Sumatra, Java, Australia, New Zealand and South Africa. All communications addressed to him will be forwarded by next mail.

MR. WILLIAM CHARLES BAILEY, 23 Salehurst Road, Crofton Park, London, S.E.4, and Mrs. Bailey, celebrated their golden wedding on October 11. Mr. Bailey, who still enjoys good health, retired about two years ago after representing James Townsend & Sons, chemists' printers, London and Exeter, for forty years in London and on the South Coast.

At a specially convened meeting of the Loughborough Liberal Association, held at Loughborough on October 13, a unanimous invitation was extended to Mr. F. Gladstone Hines, chemist and druggist, York, a member of the Pharmaceutical Society's Council, to contest the Loughborough Division of Leicestershire in the Liberal interest at the next general election. Mr. Hines, who was present at the meeting, accepted the invitation.

MR. A. J. FRANKLIN, chemist and druggist, the newly-elected president of the Brighton and Hove Association of Pharmacy, is a well-known figure in the pharmaceutical and public life of the town. He was apprenticed in 1882 at the pharmacy he now owns in King's Road, and which he purchased in 1904 from Savory & Moore, Ltd. He sold the business in 1921 and bought it back again in 1924. He also owns a branch establishment in Portslade. Both in 1905 and in 1927, when the British Pharmaceutical Conference met in Brighton, Mr. Franklin took an active part in the local organisation. His first venture into public service was as secretary of the local Association about twenty years ago. His tenure was a distinguished one, for during that period both the Shop Hours Act and the National Health Insurance Act came under purview. It is understood that Mr. Franklin claims to have called the only pharmaceutical meeting which was attended by every chemist in the town: at any rate, the audience filled the room. Mr. Franklin's business, in the management of which he is assisted by his son, Mr. Leonard Franklin, was described in the *C. & D.*, 1927, I. 684. Outside pharmaceutical affairs Mr. Franklin has a variety of interests; he is a Freemason and has held office in that organisation; he is a member of the local board of guardians; a Rotarian; and he was for five years secretary, and later vice-president, of the Dyke Golf Club of Brighton.



MR. A. J. FRANKLIN.

Observations and Reflections

By Xrayser III

Our Status

as chemists and druggists is that of shopkeepers who aim at recognition as professional men and women. This, I presume, will be admitted by your correspondent "Solo," who wishes to know what the Pharmaceutical Society has done during the last twenty years (why only twenty?) to raise our status (*C. & D.*, October 13, p. 475). Oddly enough, the reply to "Solo" is furnished in the same issue of the *C. & D.* in which the question appears. There you report the Minister of Health (p. 470) as stating, in most precise terms, that the position which the Society has attained in the estimation of Parliament and in the scientific world indicates how it is constantly striving to raise the standards of its members, and to fulfil the responsibilities which must necessarily be upon them. It would be out of place to go into detail on the subject in this column, apart from which there does not appear to be any particular reason why one of your regular contributors should pose as a protagonist of the Society. At the same time, it should be obvious that the efforts of our leaders during the past sixty years must have been attended by a considerable measure of success, in the direction of raising our status, when they elicit such enthusiastic recognition from a Minister of the Crown who is so deeply interested in our work as pharmacists, as affecting the welfare of the public.

Introspection

is a useful thing to indulge in from time to time, and I would advise "Solo" to give some little consideration to the question of what each of us, individually, can do to help in the general raising of our status as a class. It is doubtful if any amount of individual effort during the past sixty years would have proved particularly effective in securing for us such recognition as we enjoy to-day, if there had not been concerted action among the more far-seeing chemists and druggists at the time the Pharmacy Act, 1868, was passed, and if there had not been a continuance of such concerted action until the present day. By having a chartered Society to represent us, and leaders with lofty ideals, we have progressed in the public estimation at a much more rapid rate than would otherwise have been possible. And, whatever recognition we might have secured as individuals striving to raise our status, it would have been necessary, sooner or later, to combine in order to make such recognition effective and applicable to pharmacists as a class. But individual effort is just as necessary as combined effort, after these sixty years of progress, and it only needs casual inspection of a few pharmacies to realise how much might be done by us as individuals to help to convince the general public that it is possible for shopkeepers to be professional men. The fixing of any individual's status depends mainly upon himself, and any efforts of the Pharmaceutical Society, as represented by its Council, to improve our status may be nullified largely by the thoughtlessness or carelessness of its members.

Mr. Chamberlain,

in another part of his address at the Birmingham School of Pharmacy (*C. & D.*, October 13, p. 469), spoke in highly appreciative terms of the services rendered by pharmacists as the nation's dispensers. It is sincerely to be hoped that his appreciation and that of Sir Arthur Robinson, as expressed at the Pharmaceutical Society's anniversary dinner (*C. & D.*, October 6, p. 436), will soon be reflected in better remuneration for our services. It looks big to talk of 54,000,000 prescriptions being dispensed last year by 9,000 chemists (an average of 6,000 each), and to whisper that the bill for the medicines supplied amounted to upwards of £2,000,000. But the glamour vanishes from these big figures when they are analysed, and we find that the average cost per prescription was under ninepence, about half of which was absorbed by the drugs supplied at cost price, while none of our accounts were paid in full. It is, nevertheless, some consolation to me and many

others to know that our services are so highly appreciated by the powers that be, and we have the satisfaction also of knowing that, every year we continue this work as the nation's dispensers, the idea becomes more steadily fixed in the public mind that the chemist is the person from whom supplies of medicine are obtained as a matter of course. Last week I referred to the fact that chemists and druggists were not established sixty years ago as dispensers of medicines, but our position as such is clearly recognised to-day. We need to establish perfect confidence in our skill and care as dispensers, after which it should only be necessary to peg away steadily at the solution of the problem of making our dispensing service as profitable as those of any other professional class.

It Is But Rarely

that the copies of old pharmacopœias which have survived to the present time show signs of having been in use for laboratory purposes. Almost all I possess are in uniformly clean condition inside, although some are rubbed or injured on their covers. They have seen no service as practical formularies. Quite recently, however, there did come into my hands a London Pharmacopœia of 1763—a reprint of the 1745 edition—which has seen active service. At once it was evident that it would yield some information upon a matter which, I fancy, has not been much discussed, but about which there must have been some curiosity. What were the official preparations for which there was the most demand at the hands of the apothecaries in the middle of the eighteenth century? In the literature of that day there are many references to the vomits, clysters, unguents and plasters which served admirably to spice the satire of the political pamphleteers of the times. But of the preparations which physicians and apothecaries employed in their routine administration of palliatives and placebos we learn scarcely anything.

This Volume

does throw some light on the matter by merely turning over the pages. The soiled pages, splashed with the menstruum and other liquids, reveal where the book has lain open while the operator has had it under his eye as he has weighed and measured the ingredients of the preparation he has been compounding. It is very interesting to see what can be deduced from these indications. The first well-soiled pages are those on which are the formulas for vinum aloeticum, vinum amarum, vinum antimoniale, vinum chalybeatum, vinum croceum, and vinum ipecacuanhæ. The next pages are in pretty much the same condition, and bear the formulas for tinctura rhabbarbari, tinctura sacra, and tinctura thebaica; the most stained pages are those with the recipes for tinctura cardamomi, tinct. castorei, tinct. cort. peruviani, tinct. jalapii, tinct. martis, tinct. senæ, tinct. stomachica, and elixir paregoricum. Among the pills are the colocynth pills, the pilulæ ephracticæ and the pilulæ rufi. The plasters which were popular were the emplastrum e mucilaginis, emplastrum roborans and emplastrum e sapone. The two pages dealing with the chief ointments also give indications of having been in the line of fire; the ointments are unguent. ex althæa, unguent. basilicum flavum, unguent. basilicum nigrum, unguent. cæruleum. Some of the spirituous aquæ and two or three decocta, such as the decoctum pectorale and decoctum hordeata, as well as the acetum scilliticum and the oxymels, were also "made on the premises." On the other hand, the pages containing the formulas for the great confections—the conf. cardiaca, mithridatium, philonium Londinense, theriaca Andromachi—are almost as clean as they were the hour they left the printer's hands. While these preparations were held in reserve for the use of the great and noble of the land, and consequently cut a figure in history, it would appear they were not for every-day service; and it seems certain that they were not made by the ordinary apothecary, and probably obtained from professed experts. The pages of a British Pharmacopœia of 1867, which had a similar period of service in a dispensing establishment, lies before me, and gives a testimony equally interesting. An examination of other copies might produce a symposium of some value.

 **QUALITY PRODUCTS**

TABLETS & PILLS
NETTO THE DRY CLEANER
LYSOL

The Cooper Laboratory.
 Watford.
 Telegrams: Science Watford.
 Telephone: Watford, 812.

OINTMENTS Attractive
 ½-oz. tins at 9/6 gross.

Zinc B.P., Boracic B.P., Basilicon B.P.,
 Sulphur B.P., Cold Cream, Antimidge, Herbal.

Approval sample gross assorted 9/6 post free or
 sample of each post free 5d.

C. A. STOKES & CO., LTD., CHEMISTS, BRISTOL.

Tubes and vials of 24
 Cat Units, retail 3/6

UPSHER SMITH
DIGITALIS
TINCTURE TABLETS

From Wholesaler,
 or the British
 Empire Agents,

MATTHEWS LABORATORIES, LTD., CLIFTON, BRISTOL, ENG.


MATTÉ REAL
 (South American Tea)

Invaluable for RHEUMATISM,
 ARTHRITIS, GOUT, INSOMNIA,
 and all Uric Acid troubles.

A delightful substitute
 for Tea or Coffee.

Sold in sealed packets at—
 1/6, 2/9 and 5/- per pkt.

Trade Discount 33½%. Carriage paid.
 From
PEEK BROS. & WINCH, LTD.
 20 EASTCHEAP, LONDON, E.C.3.

 VISIT US AT THE NEW HEALTH EXHIBITION
 NOV. 7-14
 ROYAL HORTICULTURAL HALL
 (NEW HALL, WESTMINSTER)
 OPEN TO THE PUBLIC

CARAMIEL
 Estab. 1880 (SACCH. UST.)
L. Lambert & Co. Ltd. 4, PERCY ST.,
 LONDON, W.1.

REYNOLDS & BRANSON, LTD.
 Grand Prix **LEEDS.** Turin, 1911.

PHARMACEUTICAL PREPARATIONS.
 Tinctures, Ointments, Pills, Tablets, Suppositories,
 Standardised and Clinically Tested Galenicals, &c.

SURGICAL INSTRUMENTS.
 X-Ray and Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERAGES.
 Sparkling Phosphorated, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS.
 (Chemical, Physical and Photographic), Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.


 **'VERAMON'** **'MEDINAL'**
'ATOPHAN'
Trade Mark Products.

'Atophan' Balsam, a new preparation for external use.
 Continuous propaganda to the medical profession, and steadily
 increasing demand. Supplies may be ordered direct and
 invoiced through your usual wholesaler.

3 Lloyd's
 Avenue,
 London, E.C.3

 **Schering**
 LIMITED

Telephone—
 Royal 7580.

 **TOMLINSON'S**
DAIRY HELPS
 Butter Powder, Butter Colour, etc.

Agricultural Chemists have regular enquiry
 and sale. All wholesalers stock.
 Write 51 NEWLAND, LINCOLN.
 Meet all food regulations.

EXTRA
RECTIFIED

ALCOHOL
 FOR
PERFUMERY

Write for Prices

J. BURROUGH LTD. 1 Cale Distillery,
 LAMBETH, S.E.11

Editorial Articles

Economy in Excelsis

EARLY this year there was issued by the Insurance Acts Committee of the British Medical Association a memorandum on prescribing for the guidance of Insurance practitioners. The intention of this was to emphasise the desirability of exercising economy in the matter of prescribing, and to indicate to prescribers how such economy might be effected. Frequency of prescribing, it is pointed out at the beginning of the booklet, is the largest factor in the general increase of the cost of medicines, which has led to the chemists' accounts being discounted. It might have been well if the memorandum had ended there, because the statistics quoted prove conclusively that it is undue frequency alone which has led to the bankruptcy of the drug fund. Figures set out in tabular form show at a glance how the average cost per prescription, the average ingredient cost per prescription and the average dispensing fee per prescription all steadily decreased from 1920 to 1926, the total reduction amounting to as much as 1.4d. in the average cost per prescription. But while this total cost per prescription went steadily down from 9.9d. in 1920 to 8.5d. in 1926, the average number of prescriptions per insured person increased during the same period from 2.7 to 4.2. With this increase of more than 50 per cent. in the number of prescriptions given, it naturally followed that the average cost of drugs and appliances per insured person went up, as it did to the extent of more than 34 per cent. Whereas in 1920 the average cost per insured person was 2s. 3d., it rose in 1926 to 3s. 0½d. This seems to make it fairly clear where all the money went during 1926, and why the still worse state of affairs during 1927 resulted in the chemists' accounts being discounted. But whereas the position was aggravated in 1927 by the disastrous epidemic during the early weeks of that year, there seems to be a clear case for assuming that the

main cause of all the trouble about insufficient payment of the chemists' accounts has been the growing tendency on the part of Insurance practitioners to order medicine for their patients much more frequently than is necessary. In the memorandum under consideration it is shown how medicine is wasted by ordering an eight days' supply every week, or by ordering fresh supplies unduly early because the patients have taken either too large doses or normal doses too frequently; it is also recognised that other people than the actual patients may help to consume the medicine, particularly when it consists of liquid paraffin or malt and oil. So much for the advice given on the subject of frequency of prescribing. Under the heading of "Ingredient Cost," practitioners are recommended to avoid prescribing proprietary preparations, but it is not made clear that there are proprietary preparations for which no satisfactory therapeutic equivalent exists. Reading between the lines, the practitioner may gather that the prescribing of a proprietary preparation is the unpardonable sin, the penalty for which is surcharging. Sounder advice is given about the avoidance of unduly elaborate prescriptions, the duplication of flavouring and colouring agents, and the prescribing of unduly large quantities of liniments, ointments, dressings, etc. When, however, we come to the subject of "Dispensing Fees," the inherent if heretofore slumbering prejudice of the medical mind against dispensing being done by chemists unmasks itself. Thus, it is pointed out that the dispensing fee for any extemporaneous prescription is 5d., and that if more than one bottle of the same mixture is ordered on the same prescription there will be a separate fee of 5d. for each bottle. As against this it is stated that the dispensing fee for any "tariff" liquid medicine is 3d. only. Why then, the practitioner may read between the lines, should extemporaneous prescriptions be given, and particularly for more than one bottle? It is further pointed out that, by increasing the weights of pills ordered for patients, considerable economy may be effected, since stock "tariff" lines can then be supplied at a reduced cost. Similarly, tab. Easton. will be found to come cheaper than pil. Easton's syrup, while tablets generally cost much less in proportion than powders. In such mean ways as this the Insurance practitioner is unworthily urged to give first consideration to the cost of the medicine which is being ordered, rather than to the patient. At the same time, an attempt is made to save the situation by reminding practitioners that they may order for their insured patients any drugs whether contained in the "tariff" or not. A lengthy appendix is supposed to consist of a list of proprietary articles, with suggestions in a parallel column of drugs of reputed analogous therapeutic effect. Among the "proprietary articles" occur such items as the following, the suggested substitute in each instance being here given in parentheses:—Acid. acetic. (acid. acetic., B.P.), acid. carbolic. (acid. carbolic., B.P.), glycerin (glycerin., B.P.), pepsin (pepsinum, B.P.), syr. acid. hydriodici (syr. acid. hydriodici, B.P.). In many similar instances quite ordinary names of preparations are quoted as those of proprietary articles, with the B.P.C. preparations known under those names as the suggested substitutes. But most curious of all is the inclusion of the names of patented articles, with suggested substitutes of the patented articles themselves under names which can be found in no current price list. Such articles are Alumol, Alypin, Arrhenal, Arsacetin, Atoxyl, Bromural, Mesotan, Stovaine, etc.; the names of the suggested substitutes for these occur in the British Pharmaceutical Codex, it is true, but articles corresponding to the substitute names cannot be supplied by anyone except in the form of the actual patented articles for which substitutes are wrongly held out to be obtainable. This appendix to the economy memorandum is not a thing to be proud of, and it is a question whether anything in

the entire booklet for which the Insurance Acts Committee of the British Medical Association is responsible was worth the cost of printing and circulation, except the admission that the discounting of the chemists' accounts for 1927 was primarily, if not entirely, accounted for by undue frequency of prescribing by Insurance practitioners.

The Position of Shellac

AN important factor in the shellac market, as already referred to in the *C. & D.* of July 21 last (pp. 71-72), is the continued encouraging outlook as regards consumption, with the persistent tendency of deliveries to overlap incoming supplies, although these have kept well on the up-grade for several years past. Undoubtedly every effort is being made in India to keep manufacturing operations on as large a scale as possible, as there does not seem to be any fear of an unwieldy accumulation of stocks in consuming markets, judging by the remarkable progress of the industries which are largely dependent on shellac. Obviously speculation is always apt to play an important part in the direction of the market whether in Calcutta, London, or New York, particularly when reserve stocks fall to a dangerously low level, as happened again last midsummer when the London stocks were only 7,797 cases, or not much in excess of the monthly average for the first nine months of this year. This largely accounted for the fact that the market in July last crept up to within measurable distance of the level seen at the close of last year, when the spot price of T.N. Orange stood at about 250s. per cwt., although the stocks at that time were as much as 15,371 cases. Within the last two months or so the market fluctuated a good deal either way, but has shown some resistance even within periods of marked dullness. Over the latter part of last month there was a renewed advance to about 235s. on the spot under a very good trade demand, with Calcutta in a more hopeful mood, but the tendency last week was somewhat affected by the heavy Calcutta shipments for last month, amounting to well over 45,000 cwt., or nearly double those for the same month last year. However, the fact deserves notice that the proportion of the American takings has been much heavier, representing almost one-half of the total quantities shipped to all ports, while American consumption shows a big increase in recent months. Moreover, the supplies going direct to Continental ports and elsewhere are very considerable. There was a decrease in the London stocks last month of 808 cases to 14,434 cases, which, compared with a year previous, indicates a deficit of about 5,600 cases. The statistics covering the nine months to the end of September, with comparisons for the previous five years, are as follow:—

Cases	1923	1924	1925	1926	1927	1928
London landings—						
Jan.-Sept. ..	53,101	36,569	43,008	46,732	59,203	62,851
London deliveries	44,168	43,528	41,863	43,815	55,034	63,788
London stocks—						
Sept. 30 ..	13,199	8,377	10,947	13,764	20,063	14,434

It will be seen that for the nine months this year the total deliveries at 63,788 cases were much heavier, showing an excess of about 8,700 cases against the corresponding period of last year, and have kept ahead of the receipts in contrast with the previous four years. Whereas supplies have varied a great deal from year to year, with a very large increase last year, the figures given above for 1924 indicated a severe slump compared with the preceding year. As the out-turn of the sticklac crops largely depends on weather conditions, irregularity in shellac supplies is only to be expected; hence the market usually becomes very sensitive whenever serious shortcomings are apprehended. We give below returns showing the monthly average of London landings and deliveries for some years past, which gives a clear idea

of the ease with which the increased supplies have been absorbed by consumers, thus keeping down available stocks:—

London (in cases)	Monthly averages		Stocks at end of period
	Landings	Deliveries	
1925	4,918	4,831	10,847
1926	5,515	5,078	15,894
1927	6,811	6,883	15,371
1928 (9 months) ..	6,875	7,088	14,434

These returns are certainly very striking, particularly in the matter of deliveries for the last two years and since. The highest and lowest spot prices touched last year and this year to date were as follow:—

Orange, T.N. Spot	Highest	Lowest	Closing price
1927	270s.	152s. 6d.	250s.
1928 (to date) ..	250s.	180s.	225s. (Oct. 13)

Within the first two months of this year there was a persistent wave of depression at Calcutta, which was partly attributed to "bear" operations, possibly in anticipation of freer supplies of new crop; and quotations at that port collapsed to well under 80 rupees. This caused resales by tired holders on this side, and the spot price of T.N. fell to about 180s., which figure, however, proved very attractive to consumers, so that, with a steady strengthening of the statistical position before midsummer, the aspect of the market was entirely changed. The heavy shipments referred to for last month need not be regarded as a disturbing factor, as the large quantities absorbed by the United States are destined to replenish stocks in New York, which are rather low. In quarters closely conversant with the progress of consumption, the view has been expressed that the absorption of supplies for the current year should be at least 30 per cent. in excess of the average for more recent years. Calcutta prices recently fluctuated up to about 100 rupees.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, October 21

Liverpool Pharmacy Club, Pier Head, at 2.30 p.m. Ramble to Hinderton.

Tuesday, October 23

North London Pharmaceutical Association, North Library, Manor Gardens, Holloway Road, London, N.7, at 8.30 p.m. Opening meeting and election of officers. Followed by lecture on "Biological Products" given by Dr. J. Stanley White at 9 p.m. Illustrations by new cinematograph film and lantern slides.

Wednesday, October 24

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C., at 7.30 p.m. Lecture by Mr. R. Melville on "Notes on Some Medicinal Plants."

Thames Valley Pharmacists' Association, Kingston Hotel, Kingston-on-Thames, at 2.45 p.m. Annual general meeting and election of office bearers.

Pharmaceutical Society of Great Britain, Halifax and District Branch, Old Cock Hotel, at 8.30 p.m. Address and demonstration by Mr. J. M. Eve on "The Cine Kodak and Kodascope."

Thursday, October 25

Pharmaceutical Society of Great Britain, Leeds Branch. Lecture by Mr. W. Deacon on "X-rays—their Mystery and Use."

"QUALIFIED QUACKS."—Addressing the students of Charing Cross Hospital Medical School, London, on October 4, Dr. T. W. Eden said:—"We cannot conceal from ourselves that there are qualified as well as unqualified quacks. Quackery appeals to some members of our profession either because they are born with what we might call a 'quack mind' and have drifted into medicine by mistake, or because their sense of responsibility is so low that they will take any short cut that offers pecuniary reward."

South African Medical and Pharmacy Act

THE Medical, Dental and Pharmacy Act was gazetted on May 22, and it is rather difficult to say, writes "Economist" in the "Natal Mercury," exactly how it will affect the trade of wholesale merchants, wholesale chemists, retail chemists and general dealers. There are aspects in it which seem to imply that it is desirable to deflect to very narrow channels trade in poisons, particularly "those used exclusively in agriculture or horticulture, or as a dip for cattle, sheep, or other animals, or to be used exclusively for the destruction of vermin, insects, fungi, plants, bacteria, or for the preservation of wood: also poisons to be used for veterinary purposes as well as poisonous substances to be used exclusively for the cleansing of clothing and similar purposes." This trade has to be controlled by the "Poisons Book." As far as the writer can make out, if a storekeeper does succeed in getting "a certificate," no sale must be effected until a record has been made in the "Poison Book." And this record must state:—

- The date of sale or supply.
- The nature and quantity sold or supplied.
- The full name and address and the occupation and place of employment of the purchaser or recipient.
- The purpose for which the poison is stated to be required.

"And unless further to such entry is affixed the signature of the purchaser or recipient, and if such purchaser or recipient has not previously been known to the dealer or responsible officer, the signature also of a person whom the dealer or responsible officer knows and who knows the purchaser and recipient . . ." Every such poison must be sold in unbroken original containers, which shall be securely closed, free from leaks, and of sufficient strength to withstand rough usage, and shall be clearly labelled with the name of the article in both languages, the word "Poison" in both languages, and the name and address of the sealer or supplier.

KEEPING A POISON BOOK

The keeping of a "Poison Book" correctly is no easy matter, and is one of the special points which the chemist learns in his training, and error in keeping this book is likely to cause trouble. According, therefore, to this Act, if an importer sells a five-gallon drum of sheep dip to a hotel, he sells to a consumer and is subject to all the provisions of the Act. If an importer sells a drum of arsenite of soda, solignum or cattle dip to a consumer, he is also subject to the Act, and must be thoroughly acquainted with the party he sells to and know him personally, register the sale, and be subject to the new conditions prevailing. So, on the face of it, it appears that the sale of these articles will revert largely to the wholesale and retail chemist.

There is a somewhat ambiguous clause in Section 51 which may be read in a way that no certificate to sell poisons would be granted to a dealer if there is a chemist within a radius of five miles. Or it may only refer to certain patent medicines. Further hints in this direction lie in the clauses that "No poison shall be sold over any counter or table used in connection with the handling, preparing and sale of any article of food or drink." And in Chapter 7 there is a very stiff clause in regard to limited liability companies carrying on the business of a chemist and druggist, i.e., mainly selling poisons. "The body corporate shall appoint a chemist and druggist to be its managing director in the Union . . . and such chemist and druggist shall not act at the same time in a similar capacity for any other body corporate or other concern carrying on a similar business."

Again, on the face of it, therefore, it would not be likely for the legislature to hedge with rigid restrictions the sale of poisons (e.g., wood preservatives and disinfectants or sheep dip) by chemists or certificated dealers, and allow importers at the coast, such as timber and miscellaneous merchants, to sell indiscriminately arsenite of soda or solignum through advertisements and price lists. General merchants would be wise to make themselves acquainted with the position before they indent further supplies which may possibly rank as "dead stock."

POISON SALES TO BE CONTROLLED

Discussing the matter with a well-known and responsible officer of the police force in Natal during the week, the writer was advised that the police were anxious for the poison traffic to be controlled. On January 1 this will be so. To-day, any farmer can get a drum of arsenite of soda from any dealer in Durban, and arsenite is largely used for poisoning animals, etc. To-day it cannot be traced where the arsenic comes from, but after January 1 that will be stopped. All sales of arsenical preparations and of poisons in the schedule will be registered in "Poison Books" according to the Act, which will centralise sales, and probably put the whole business eventually into the chemists' hands. There will be no overcharging, as the Act provides against all that.

LEGAL OPINION

Since the above was written, legal opinion has been obtained, and is to the effect that the distribution of poisons in South Africa will be centralised and pass either (1) through the hands of chemists and druggists, or (2) merchant firms whose managing directors are qualified chemists and druggists, and who trade under the name of such managing directors.

Federation in British West Indian Pharmacy

THE attention of the executive of the Pharmaceutical Society of Trinidad and Tobago has been drawn to a cable report of the efforts made by the British Guiana Chemist and Druggist Association for a federation in pharmacy between the British West Indies and British Guiana. It was also reported that letters were addressed to the several colonies towards that end. In that report were published replies from the Surgeon-General of Trinidad and the Chief Medical Officers of Jamaica, Barbados and Bermuda. They were all agreed as to the principle, and wanted more details, Jamaica adding that as far as that colony was concerned, druggists there hardly ever left the island to practice in other West Indian colonies. The Pharmaceutical Society of Great Britain was also addressed, but did not entertain the suggestion, and made certain suggestions with a view to future consideration.

The executive of the Trinidad Pharmaceutical Society and a few of the city pharmacists whom the secretary has interviewed on the subject regret the action of the British Guiana Association. The Society, in its articles of association, admits qualified druggists of other colonies to membership, and has at present two British Guiana druggists enrolled. While the Pharmaceutical Society of Trinidad has not been shouting from the "house tops," it has been doing everything to foster and bring about federation in a quiet way, and the secretary gives a brief history of what has been done, after which he outlines a practical plan for the federation of pharmacy in the West Indies. In the course of this he says: "In this part of the Empire the possibility is somewhat remote to do manufacturing as chemists on any large scale, therefore the West Indian chemist and druggist does not need so high a standard in certain branches as the English chemist and druggist. What is needed is an equal preliminary standard and a modified standard of the Qualifying examination in Great Britain, with a special proviso permitting those who so desire to take a post-graduate (Great Britain) qualification at some local centre which will give equal status with those holding certificates in Great Britain.

Because of local conditions and the paucity of members in some of the smaller islands to form their own societies and boards, the islands could be grouped thus: (1) The Windward group (Grenada, St. Vincent, Dominica, St. Lucia); (2) the Leeward group (St. Kitts, Montserrat, Nevis, Antigua); (3) Barbados; (4) British Guiana; (5) Jamaica; (6) Trinidad and Tobago, each with its society and board of pharmacy, Bermuda electing to join any of the groups or make such arrangements as suited its geographical position. Each local society to comprise registered druggists and assistants,

and the boards a Government medical officer, a private practitioner, and four druggists nominated by the local society, the board to discipline and control pharmacists under statute and to conduct the local examinations (the papers being sent from the Pharmaceutical Society of Great Britain). A B.W.I. Pharmaceutical Council could meet every two years in one of the colonies, to discuss matters affecting pharmacy in these parts, and to advance the cause generally; to be composed of members delegated by the several societies and boards of pharmacy, who would also act as advisers to the board of examiners in Great Britain.

If the British Guiana Chemist and Druggist Association have a genuine desire to advance pharmacy in these colonies and are prepared to adopt the practical suggestions made, or give some detailed constructive suggestions, they can depend on the Pharmaceutical Society of Trinidad and Tobago to give every support and to continue to use every effort in making "Federation in Pharmacy" in the British West Indies and British Guiana an accomplished fact.

New Books

Bidwell, C.—*How to Use a Banking Account*. 7½ in. by 4½ in. Pp. 106. 3s. 6d. Pitman & Sons, Ltd., Parker Street, Kingsway, London, W.C.2. [A guide to the relations between business people and their bankers. The author gives detailed notes regarding the drawing and endorsing of cheques, the use of bills of exchange, the collection of dividends and many other matters in which the banking profession plays a part.]

Zsigmondy, R.—*Kolloidchemie*. Part II. Fifth edition, entirely revised. 9½ in. by 6½ in. Pp. 266. Marks 14. Verlag von Otto Spamer, Leipzig. [The second volume of Professor Zsigmondy's text book on colloidal chemistry deals with the various methods adopted for the production of inorganic and organic colloids. An exhaustive description is given of the processes in use for the preparation of each colloid, its characters and reactions, together with numerous references to the literature. The value of the work is enhanced by the inclusion of notes regarding the practical uses to which so many of these colloids have been put, and in this connection it is particularly interesting to note that a considerable number have found a definite place in modern materia medica. The information collected in this volume bears eloquent testimony to the enormous strides made in colloidal chemistry and its manifold applications in various branches of science and industry, while the comprehensive and authoritative treatment of the knowledge now available in this important new field of chemistry renders it an extremely valuable work of reference.]

Schwyzler, J., Dr.—*Die Fabrikation der Alkaloide*. 9½ in. by 6½ in. Pp. 127. Marks 10.50. Verlag von Julius Springer, Berlin. [This book is written by a chemist who has had an extensive practical experience of the manufacture of alkaloids on a commercial scale. As an introduction to the processes adopted in extracting the principal alkaloids used in medicine, which are dealt with individually, the author describes the methods adopted for assaying the raw material, as well as a series of laboratory experiments. This is followed by a description of the technical methods and apparatus used for the extraction and purification of the alkaloid in question. In view of the fact that details of the processes adopted in this branch of industrial chemistry are not readily available, the work should prove of considerable value to chemists engaged in the manufacture of alkaloids, particularly since the various processes actually in use are so clearly and concisely described, including the difficulties so often encountered and the methods adopted to overcome them. The author confines himself to dealing only with the practical and technical aspects of the subject; the chemical reactions involved are briefly given in order to explain the basis of each operation. Numerous illustrations of apparatus are included, as well as a chapter on the organisation, etc., of a plant for the manufacture of alkaloids, with notes on the postulates to ensure an economic return.]

The Sandalwood Oil Question

AN interesting contribution to the chemistry of West Australian sandalwood oil, in the form of a paper read before the Royal Society of New South Wales on June 6, 1928, has been made by A. R. Penfold, the curator and economic chemist, Technological Museum, Sydney. Recent researches show that the accumulated evidence is strongly in favour of the alcohols present in the Australian oil being different from those in the East Indian oil of *Santalum album*. As Penfold states: "Despite the fact that several chemists have already shown the alcohols to possess certain differences from the well-known East Indian oil, quite a number of writers still persist in definitely expressing the sesquiterpene alcohols present as santalol." Penfold points out that the older investigations were made on oils containing 75 per cent. (approx.) of sesquiterpene alcohols, whereas the West Australian oil now marketed is much improved and contains up to 95-96 per cent. of sesquiterpene alcohols. "The production" — he says — "of these high-grade oils does not necessarily mean that, even allowing for the chemical and physical contents being in agreement with the East Indian oil, that this Australian oil is identical in chemical composition, and I am able to show, under 'experimental,' that such is not the case." Mr. Penfold, with the assistance of Mr. S. L. Kessel, the conservator of forests, Western Australia, has been able to obtain authentic material for his investigations, and the present paper may be regarded only as an initial contribution to the subject.

It was found in the present investigation that the Australian oil reacted just as readily with phthalic anhydride in benzene solution as the santalols of East Indian oil, and appeared to be of a primary character, contrary to the opinion expressed by Rao and Sudborough. This may be due to the fact that the latter chemists made no reference to the presence of any santalol in the oil. Penfold, on the other hand, found 35 to 40 per cent. of santalol in a commercial sample of the West Australian oil. The two sesquiterpene alcohols described by Rao and Sudborough as α -fusanol and β -fusanol approximate very closely in character to the santalols. A levorotatory alcohol with an optical rotation of -65.7° has been isolated from the oil, which is the principal component of a sandalwood oil obtained from *Santalum lanceolatum*, which Penfold states is used by the manufacturers to bring the optical rotation of their oils up to the requirements demanded by the B.P. for the East Indian oil. He has been successful in characterising some of these alcohols by the preparation of their allophanates. He states that those of the santalols melt at $162-163^\circ$, whilst the other alcohols for which the name fusanol might be retained yield similar derivatives, melting at $148-152^\circ$. The alcohol from *S. lanceolatum* yields a beautifully crystalline allophanate, melting at 114° . Of these alcohols the fusanols and the highly levorotatory alcohol do not yield santalenic acid, which results from the controlled oxidation of the santalols. A dextrorotatory oil of apparently secondary character was isolated in small amount from the West Australian oil, but this did not yield a crystalline allophanate. Penfold goes on to state: "In order that the preliminary results recorded herein may be of practical value, commercial samples of East Indian oil were examined at the same time and under similar conditions. The chemical and physical characters of the respective commercial oils of the West Australian manufacturers are in close agreement, and my experimental work leaves no doubt at all that these oils differ in chemical composition from the East Indian

oil, although the santalols are present to the extent of about 40 per cent." The work of Sprague and Summerhayes ("Kew Bulletin," No. 5, 1927, Miscellaneous Information) seems to have established the fact that the tree yielding the principal supplies of West Australian sandalwood oil of commerce is *Eucarya spicata*. Penfold then says: "No valid reason has been advanced as to why the Australian oil cannot find a market on its own intrinsic merits as the product of *Eucarya spicata*. The B.P. authorities should undoubtedly make provision for it in the B.P. under its own generic name, as it is futile to include it under the same heading as the oil of *Santalum album*, more especially as the chemical and physical characters of the Australian oil can be made similar by the addition of the distillate of *Santalum lanceolatum*. The following are the characters of the various oils examined by Penfold:—

Samples examined	Sp. gr.	Rota- tion	Ref. index	Solubility in 70% alcohol		Ester value, 1½ hours	Ester value, after acety- lation	Botanical origin
				By wt.	By vol.			
Commercial sample W.A. oil:								
No. 1	0.9693	- 8.35°	1.5055	1.2	2.0	13.4	205.6	<i>Eucarya spicata</i>
No. 2	0.9672	- 4.5°	1.5052	1.4	4.5	10.9	197.8	" "
No. 3	0.9662	- 1.85°	1.5067	1.3	4.75	9.1	197.6	" "
No. 4	0.9628	-45.7°	1.5085	1.3	4.25	23.5	204.6	<i>Santalum</i> " <i>lan- ceolatum</i>
No. 5	0.9529	-48.5°	1.5068	1.6	4.7	8.4	205.4	<i>Santalum lan- ceolatum</i>
Mysore oil:								
No. 1	0.9786	-17.5°	1.5063	1.5	4.0	19.2	208.5	<i>S a n t a l u m album</i>
No. 2	0.9778	-18.7°	1.5067	1.5	4.5	15.6	204.8	<i>S a n t a l u m album</i>
Oils distilled in Technological Museum from logs supplied by Braddock & Co., Ltd., Perth, Aust.								
	0.9485	-4°	1.5020	2.0	insol.	13.0	179.0	<i>Eucarya spicata</i>
	0.9446	-61°	1.5055	0.8	10 Ms. 7.5	9.3	193.4	<i>Santalum lan- ceolatum</i>

Two samples of Australian and one of East Indian oil were fractionally distilled at 1-2 mm. pressure, with the following results:—

AUSTRALIAN No. 1 (400 C.C.)

Boiling point	Volume	Sp. gr.	Rotation	Ref. index	M. Pt. of allophanate	Yield of santalenic acid (Per cent.)
110°—140°	46c.c.	0.9338	-8.7°	1.4970	157°	14
140°—145°	62c.c.	0.9595	-7.2°	1.5031	153°	17
145.5°—146.5°	40c.c.	0.9627	-7.6°	1.5051	153°	12.5
146.5°—147°	142c.c.	0.9627	-8°	1.5058	142—145°	10
150°—156°	40c.c.	0.975	-10°	1.5089	—	3
156°—158°	20c.c.	0.977	-10.8°	1.5100	—	—

AUSTRALIAN No. 2 (100 C.C.)

Boiling point	Volume	Sp. gr.	Rotation	Ref. index
104°—130° (3mm.)	20c.c.	0.9372	-4.55°	1.4992
130°—147° (3mm.)	17c.c.	0.9582	-4.5°	1.5037
148°—154° (0mm.)	53c.c.	0.9691	-3.8°	1.5068

EAST INDIAN OIL (200 C.C.)

Boiling point	Volume	Sp. gr.	Rotation	Ref. index
135°—141°	35c.c.	0.969	-15.9°	1.5040
141°—145°	150c.c.	0.9785	-17.2°	1.5064
Residue	15c.c.	0.979	-24°	1.5150

The above results clearly show that there exists a considerable difference in the alcoholic components of the West Australian and the East Indian oils. The oils were then treated with phthalic anhydride and the regenerated alcohols examined. The allophanates were prepared and their melting points taken. These confirm the conclusions given above.

The chemists of the Imperial Institute ("Bulletin," 1920, 18, 163) found that the Australian oil yielded 8 per cent. of santalenic acid as against 20 per cent. from the

East Indian oil. The Australian oil examined contained 76.78 per cent. of alcohols. Penfold has used an improved method of oxidation, with better yields of the acid. Fifty grams of powdered permanganate of potassium (70 gms. in the case of Australian oil) are placed in a winchester quart with 700 c.c. of iced water, 300 gms. ice, and 20 c.c. of the oil. The whole is well shaken and oxidation is completed in a few minutes. Six to seven grams of crude santalenic acid were obtained from 20 gms. of East Indian oil, but only 2.5-3.5 gms. for the same quantity of Australian oil. On this basis the Australian oil is considered to contain about 40-45 per cent. of santalols. The presence of santalol in both oils was confirmed by the preparation of an aldehyde obtained by the oxidation of the oil in acetic acid with chromic acid, which in both cases yielded a semi-carbazone, m.p. 230°.

The preparation of the allophanates has shown that the West Australian oil contains alcohols isomeric with the santalols. The East Indian alcohols yield a fine crystalline derivative, melting at 162-163°. The Australian oil gave a mixture from which by repeated fractional crystallisation a fraction was obtained, melting at 162°. A mixture of the two showed no depression in the melting point, hence the presence of santalol is proved. The remaining fractions varied in melting point from 148° to 152°. Penfold finds in all commercial samples of Australian oil not more than 10 per cent. of an alcohol, which combined with phthalic anhydride only at 140°. This alcohol, regenerated from its phthalic acid ester (but not otherwise purified) has the following characters:—

	I	II
Boiling point (1mm.)	145-154°	146-150°
Specific gravity	0.9939	0.995
Optical rotation	+18.4°	+27.2°
Refractive index	1.5106	1.5100

No crystalline allophanate could be obtained from either specimen.

The results of the examination of the oils distilled from wood of known origin by Penfold himself are of considerable interest. The oil from *Eucarya spicata* yielded by the phthalic acid (in benzene) process at 100°, 50 per cent. of alcohols having the following characters: boiling point (4.5 mm.), 160-161°; specific gravity, 0.942; optical rotation, + 4.9°; and refractive index, 1.5039. The wood of *Santalum lanceolatum* gave 70 per cent. of an alcohol having a boiling point 163-165° (5 mm.); refractive index, 1.5074; specific gravity, 0.9474; and optical rotation, -66.7°. It is thus made perfectly clear by Penfold that West Australian sandalwood oil, as a mixture of the oils of *Eucarya spicata* and *Santalum lanceolatum*, contains up to 40-45 per cent. of the isomeric santalols, the remainder of the alcohols, say 50-55 per cent., being a mixture of alcohols for which the name fusanol might be retained, a dextro rotatory alcohol not yet named, and a highly levorotatory alcohol derived from *S. lanceolatum*.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Urease.—A process for the manufacture of a stable, soluble, pale-coloured, dry urease preparation from aqueous extract of soya beans or urease containing parts of plants by adding phosphates (mono-potassium phosphate, mono-sodium phosphate, di-sodium phosphate or their admixture) to the extract and atomising it in a heated gas current, the product thus containing the whole of the urease originally present. (Henkey G.m.b.H., Düsseldorf. 277,644.)

Photoprints and Photocopies.—Paper, or paper which is coated with a gelatin layer, glass or celluloid film is made sensitive to light by application of a salt of 1:2-naphthoquinone-4-sulphonic acid and is exposed to light and subsequently developed with an organic compound containing a free amino-group—e.g., aniline hydrochloride, 1-methyl-2:4 diaminobenzene or 1-amino-4-oxybenzene—to produce red or violet colours. (I.G. Farbenindustrie. 286,233.)

Ergot Imports Case

New affidavits were filed on September 26 in the Supreme Court of the District of Columbia by Howard W. Ambruster, a New York drug importer, who is seeking an injunction to restrain the Secretaries of Agriculture and the Treasury from permitting the importation of ergot which he alleges is below standard strength. It will be recalled that the preliminary hearing (*C. & D.*, August 18, p. 227) resulted in a denial by the Court of a temporary injunction restraining the Government officials during the trial of the suit. Mr. Ambruster now wishes to secure a Court order requiring the Department of Agriculture to show him the records of tests made on samples of ergot imported since September 1927, and the bonds and affidavits filed by importers who brought in sub-standard ergot subject to reconditioning under Regulation 30 of the Act. This request for a discovery of the records will be argued first before the case is tried. Mr. Ambruster was refused this information by the Department of Agriculture and other departments. He also relates that he suggested to the New York Customs that an investigation be made of the way in which ergot is reconditioned. Customs assigned an investigator, who accompanied Mr. Ambruster on a visit to the Manhattan Milling & Drying Co., Brooklyn. Mr. Ambruster says that he told officials of this firm that he wanted to import some poor-grade ergot and was assured that, no matter what the condition of the ergot, the firm could fumigate, clean, dry and polish it to make it pass inspection by the Department of Agriculture; that the firm had done this for years; that its work had always passed inspection and that the charge would be about 2 cents per lb. Mr. Ambruster says he drew up an affidavit relating these facts, which the Customs investigator agreed to sign, but later an official of the Customs called him on the telephone and told him that the investigator would not be permitted to sign the affidavit. It is Mr. Ambruster's belief that a continuous and uninterrupted series of shipments of sub-standard, deficient, lousy, filthy, and otherwise objectionable and illegal crude ergot has been imported during recent months with the knowledge and consent of the defendants. As proof of this he refers to market journal quotations of recent months, showing ergot selling at from 85 cents to \$1.50 per lb., and declares that from his experience he knows it to be impossible to sell good ergot at such prices, since this is less than the cost in the country of origin. He also declares that manifests of vessels reaching the port of New York since May have shown many shipments of ergot entering from Hamburg and other ports in Northern Europe. These facts, he says, indicate that the ergot being entered is Russian and Polish or mixed ergot which is known to be of poor grade.

The affidavit names a list of nineteen prominent drug manufacturers alleged to be purchasing and importing sub-standard crude ergot and with the connivance of the Department of Agriculture manufacturing it into fluid extract which they sell as complying with the United States Pharmacopoeia, but which in reality is impure and dangerous. One lot tested in one of the plants was so bad that it killed the guinea pigs used in the test, he asserts. He also lists five drug importers who, he asserts, have employed reconditioners to bring ergot importations up to a point where they will pass physical inspection for importation.

Another affidavit was filed by Manuel De Castro, 2801 Boulevard, Jersey City, who states he has been a dealer in crude drugs, including ergot, for eighteen years, and that he knows that since September 1927 the price of ergot in Spain has not been lower than 80 cents per pound and most of the time has been nearer \$1.85 per lb. Russian and Polish ergot, he says, may be bought at from 50 cents to \$1.10 per lb., c.i.f. New York. In the last two months, Mr. De Castro asserts, he has purchased in New York two samples of crude ergot which was grossly adulterated with Russian and Polish ergot. These lots, he says, were guaranteed by the sellers to have been passed by the Department of Agriculture, but the sellers themselves refused to guarantee the strength or purity of the ergot.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Blackpool.—A meeting of the No. 4 Lancashire Pricing Bureau was held on September 21. Alderman Blomley (Rochdale) asked whether insured persons were entitled to the same quality of medicines and appliances as a medical practitioner supplied to his own private patients. There was a general impression abroad that Insurance drugs were not the same as those supplied to private patients, and that insured persons could not obtain the same standard of appliances. He wondered whether such a statement was justified, and whether some step could be taken to counteract it. Mr. T. S. Barlow (secretary) said that insured persons were entitled to the drugs and appliances prescribed for them by their doctors on the panel. There was no limit to the character of the drugs supplied. Mr. Hy. Whittaker (Blackburn) referred to recent correspondence in "The Times" on this subject. There was an impression abroad that insured persons could not obtain from an Insurance doctor such drugs as he prescribed for his private patients, and the Committee should take every possible step to correct such a misapprehension.

Bolton.—A recommendation endorsed by Bolton Insurance Committee, on September 14, was tantamount to a fine of £5 on a medical practitioner for issuing a certificate contrary to the regulations. An approved society alleged that there had been a breach of service, inasmuch as a certificate was given to an insured person without examination.

East Ham.—The Insurance Committee discussed, on September 26, the position that had arisen with regard to the advisory work carried out by Councillor J. Brooks, retired chemist and druggist, in respect of test prescriptions (*C. & D.*, July 21, p. 57). The clerk said that no reply to the Committee's letter had been received from the Ministry of Health. Mr. A. H. Wiseman, J.P., chairman of the Pharmaceutical Service Subcommittee, took exception to statements in the Retail Pharmacists' Union's letter, and said that Councillor Brooks, with his ability and technical knowledge, had been of great assistance to the Committee, especially with his advice when the analyst's report has been under consideration. Mr. Wiseman: My opinion is that we have too many chemists on that Subcommittee. Doctors are bad enough, but I believe chemists are worse. (Laughter.) Every chemist is a George Washington—he never tells an untruth and never makes a mistake! (Laughter.) Mr. Gardner drew attention to a letter from the East Ham Pharmaceutical Committee. This letter stated that the "Committee have reluctantly withdrawn the name of Mr. J. Brooks as their representative on the Pharmaceutical Service Subcommittee, the Hours of Service Subcommittee, and the General Service Subcommittee." The clerk added that the Pharmaceutical Committee subsequently wrote withdrawing this letter and asking that it be destroyed. It was decided that the Union's letter remain on the table. Councillor Brooks: So long as I have the confidence of this Committee I don't care what goes on outside. A unanimous vote of confidence in Councillor Brooks was passed and, in replying, he remarked that "this advising on test prescriptions is an unthankful office. I try to do my duty without fear or favour." A letter was received from the Ministry of Health regarding a case in which, following the analysis of a test prescription, the Committee decided that a deduction of £5 should be made from the remuneration due to the chemist concerned, and asking for further particulars. The clerk was instructed to reply.

Huddersfield.—At a meeting of the Insurance Committee on September 26, the Pharmaceutical Service Subcommittee reported that they had considered the analyst's report upon a certain test prescription, which showed a deficiency of 3.2 per cent. of potassium iodide, and an excess of 23.7 per cent. of aromatic spirit of ammonia. The container was, however, of a total fluid capacity of only 7.7 oz. The manager for the chemists attended

and submitted a report from an independent analyst which was not in a form comparable with the report of the Committee's analyst. It was understood to show a considerable excess of pot. iod., and to confirm the official report so far as it related to spt. ammon. aromat. The manager stated the dispensing in this instance was done by an assistant of many years' experience. He was quite unable to account for the excess, but, in view of the reports, must admit there was an excess. The pot. iod. was dispensed by solution and all ingredients measured. The Subcommittee recommended that the firm should be reprimanded and advised to be more careful in the future.

Preston.—The growing practice of insured persons calling on panel doctors after regulation hours was mentioned at Preston Insurance Committee on October 4. Dr. Pimblett said scores of cases could be cited where doctors answered calls after making their daily rounds, and then found they were not urgent. The chairman said the practice tended to impair the efficiency of the medical service.

Southend-on-Sea.—At a meeting of the Insurance Committee on September 25, a letter was read from the secretary of the Pharmaceutical Committee inquiring whether it would be possible to make some arrangement with the Panel Committee as to the prescribing of proprietary articles, stating that the question had arisen as the result of a chemist on the panel supplying Thermogene. The clerk reported that appliances not mentioned in the Second Schedule of the regulations could not be allowed. It was resolved to recommend that instructions be given to Insurance doctors and chemists to adhere strictly to the list of appliances, and it was decided to obtain some definite ruling from the Ministry of Health as to the supply of proprietary articles not included in the Schedule.

Staffordshire.—The Medical Benefit Subcommittee presented, at a recent meeting of the Insurance Committee, a report which stated that a letter had been received from the honorary secretary of the Panel Committee relative to the prescribing of a practitioner during the three months ended December 31, 1927. The findings of the Committee were as follows:—(1) That there had been excessive frequency of prescribing; (2) that the doctor's explanation of the high ingredient cost and polypharmacy was inadequate; (3) that the doctor had failed to justify the heavy prescribing of tincture of iodine and malt and oil. They considered that the provision of iodine for dressing wounds in the surgery was covered by the remuneration on the basis of 1s. 3d. per 100 insured persons for emergency drugs and dressings, and that the doctor had ordered malt and oil as a food rather than a drug, and in a reckless manner without regard to the cost to the drug fund. The Committee recommended that the Ministry of Health be advised to withhold the sum of £20. In presenting the report, Mr. R. Critchlow observed that they were informed that within a period of three months the doctor ordered a quarter of a ton of malt and oil. The Committee's recommendation was approved. The Pharmaceutical Service Subcommittee reported to the Insurance Committee that a test prescription had not been dispensed according to the revised formulary, and it had been found that the facts in the case disclosed some slackness on the part of the chemist concerned. The Committee considered that the case could be met by warning the chemist of the necessity of care in selecting the right formula, and this action was agreed to.

SCOTLAND

Morayshire.—At a meeting of the Moray and Nairn Insurance Committee, held at Elgin recently, it was reported that the payments to the chemists were as follows: April, £105 15s. 5d.; May, £98 16s. 11½d.; June, £84 3s. 9½d.; and July, £77 4s. The steady decrease was noted with satisfaction. The checking bureau statistics of doctors' prescribing showed that the average value of the forms for the half-year ended June 30 was 13.66d.; average frequency, 0.74; and average cost per patient, 10.53d. These figures were regarded by the Committee as very moderate.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, October 18

BUSINESS in the Mincing Lane markets has been on the quiet side so far as drugs are concerned, but values are well maintained. Curaçao aloes is dearer in sympathy with the continued advance at the source. Cardamoms are higher owing to a decided shortage in the Ceylon crop. Menthol declined early in the week, but there was a partial recovery later. Bees' wax has a firmer undertone. Slightly more activity is reported in seeds this week. Canary continues firm; Morocco cumin is easier, and Mazagan linseed and English mustard are firmer. Price changes in essential oils are of small moment, and Japanese peppermint, which fluctuated considerably during the week, closes unchanged. Cajuput and clove are firmer, cassia and patchouli easier, and lemon, orange and rosewood lower. In pharmaceutical chemicals the volume of business done is poor, and there are practically no price changes. Sodium salicylate and phenacetin continue in fair demand at keen prices. Among industrial chemicals there are no important price changes, business remaining distinctly poor for the period of year. In the metal group, cadmium metal has further advanced, and Chinese regulus antimony is dearer; mercury has been offered at cheaper rates from dealers' hands. Among the fixed oils a better general trade demand is reported, and prices are well maintained; slightly higher prices are quoted for castor, on a dull market, and all grades of cotton oils are easier; palm kernel is the turn cheaper; turpentine weakened early in the week and closed easy. Hankow wood is easier on spot.

Higher	Firmer	Easier	Lower
Aloes (Curaçao)	Cajuput oil	Cassia oil	Cocoa butter
Antimony	Clove oil	Cotton oils	Lemon oil
(Ch. reg.)	Linseed	Cumin seed	Mercury
Cadmium metal	(Mazagan)	(Mor.)	(sec. hands)
Cardamoms	Mustard seed	Palm kernel oil	Orange oil
Castor oil (Eng.)	(Eng.)	Patchouli oil	Rosewood oil
Honey	Rubber	Sarsaparilla	Shellac
		(native Jam.)	
		Wood oil	

Crude Drugs, etc.

ALOES.—Curaçao is dearer at 75s. per cwt. c.i.f. for t.q. for shipment from origin, and from New York 80s. c.i.f. is quoted. Fine pale livery quality, which is scarce, is held in one quarter for 115s. per cwt. on the spot. It is advised from the source that the high wages paid by the oil companies in the Dutch East Indies prevent the collection of aloes.

ANTIMONY.—The demand for Chinese regulus has been rather better and prices have advanced, spot parcels now being quoted at £40 10s. to £41, and terms for shipment are now about £40 10s. c.i.f., but orders are placeable for second-hand lots at less. English refined is from about £58 to £60, according to brand and quantity.

BALSAMS.—The price quoted for *Canada* balsam last week should have been 5s. 3d. per lb. not 6s. 3d. *Tolu* has been more active, and values are from 3s. 11d. to 4s. per lb., according to quality; forward offers are few.

CADMIUM.—There has been a further considerable advance under a continued lively demand, and the tendency of the market is still upward owing to the difficulty of getting hold of prompt supplies. Good-sized lots on the spot are quoted 3s. 9d. to 3s. 10d., and terms to arrive are around 3s. 8d. per lb.

CARDAMOMS have met with more demand at firmer prices on account of a smaller Ceylon crop, now in course of collection. Ceylon-Mysore bold bleached is 7s. 6d., medium 5s. 6d., small medium 4s. 6d., smalls 3s. 6d., green Alleppy 4s. 9d. spot, for shipment 3s. 10d. c.i.f. has been paid; decorticated seed 5s. 6d. to 5s. 8d. London stocks are much reduced, the drug statistics on September 30 revealing 1,346 packages, against 2,440 last year, while the arrivals in September were 136 and the deliveries 201. Landings to date have been 1,712, against 3,072, and the deliveries to date 2,546, against 2,171 last year.

CHAMOMILES are steady at 220s. per cwt. spot for good white new Belgian.

CIVER of good quality is offered at from 9s. to 9s. 6d. per oz.

CLOVES.—Zanzibar are firm, with spot sales at 1s. 1½d. per lb. For shipment, October-December has been sold at 1s. 1½d., and January-March at 1s. 1½d. c.i.f. The landings of Zanzibar in London during the week ending October 13 were nil and the deliveries 85, leaving a stock of 4,097, against 10,788 in 1927 and 9,517 in 1926. From January 1 to October 13, 1928, the landings of Zanzibar have been 13,319, against 16,033 in 1927, and the deliveries 16,903, against 12,846 in 1927.

COCOA BUTTER.—Prime English is quoted at 1s. 5d. per lb., in not less than one-ton lots.

COD-LIVER OIL.—Our Bergen correspondent writes on October 15 that a firmer tendency is observed, and it is said that Aalesund and Oslo exporters are buyers in the market. Nevertheless, the quotation on the exchange was unaltered. The export of cod-liver oil from Norway during January to August inclusive, is 47,063 hectolitres, against 57,388 hectolitres for 1927. The production in 1928 was only 50,981 hectolitres.

EGG PRODUCTS.—Dried Chinese yolk is quoted at 1s. 10d. per lb. on the spot, and October-December shipment 1s. 10d. c.i.f. Sprayed is 2s. 2d. spot, and September-October shipment is 2s. to 2s. 4d. per lb. c.i.f. Prime Chinese hen albumen is 2s. 3d. spot, and October-December shipment 2s. to 2s. 1d. c.i.f. London.

GINGER is quiet, with West African offering at 52s. per cwt. on the spot; fair washed rough Cochin is 65s.; small Jamaica 80s. to 85s., and bold 110s. to 130s. per cwt.

HONEY has further advanced and prices of the cheaper grades in particular show an aggregate rise of about 12s. per cwt. from the commencement of the advance; good white Jamaica is scarce at from 57s. 6d. to 60s., brown to light amber is 46s. to 50s., and dark amber 45s. to 47s. 6d. per cwt.

HYDRASTIS.—A cable from the source indicates a lower price at \$3.60, per lb. c.i.f.

KOLA remains scarce at from 7d. to 7½d. per lb. for new crop Jamaica halves, and to arrive 50s. per cwt. c.i.f. is quoted in five-ton lots. African quarters due shortly are quoted at 5½d. c.i.f. The "Starling" has brought 125 bags from Amsterdam (probably Java description).

LIME JUICE continues very scarce, and for good pale green 3s. 9d. per gallon would probably have to be paid; old crop can be had at from 2s. 6d. to 3s. 6d. per gallon for pale to light brown.

LOBELIA HERB is quoted at 8d. per lb. on the spot, and to arrive 6d. c.i.f. is asked.

MAGNESIUM has been irregular, and reliable quotations are not easily obtained. Small ingots and sticks, including bars, range from about 3s. 3d. up to 3s. 9d., and terms for powder are more widely divergent, according to description of material for specification. Prices are quoted up to about 7s., but purchases can be made down to about 4s. 9d. per lb.

MENTHOL.—The spot price declined early in the week by about 1s. 6d. per lb., with sellers of Kobayashi-Suzuki at 23s. 6d. per lb., but on Wednesday there was a recovery to 24s. 6d. For shipment, September-October and October-December positions are quoted at 22s. 9d. c.i.f. and January-March at 22s. c.i.f.

MERCURY.—The much larger arrivals since the end of August have induced freer selling on the part of certain holders, which, in the face of an extremely cautious demand on homo account has resulted in further considerable concessions. Quotations on Tuesday on the spot ranged from £22 5s. to £22 10s. per bottle, less the usual discount. There has been, however, no change in the first-hand f.o.b. price as quoted by the Combine's selling office, which stands at £21 15s. Consumers are believed to be scantily provided for, but there is still considerable hesitation in placing orders. Given some revival, there is little doubt that the market will become sensitive, but, all the same, the spot position is somewhat uncertain. Imports for last month were heavy at 7,941 bottles, against 1,904 bottles the same month last year, and the total for nine months is 21,955 bottles, comparing with 16,083 bottles, the corresponding figure for last year. Re-exports for the nine months were 3,491 bottles, against only 696 bottles in 1927. There are undoubtedly good stocks available, but these are said to be well held. It is now suggested that shipments for the last quarter of the year will be of no great importance, inasmuch as they will be affected by the official restrictions on the exports from Spain and Italy. Another point is that normal production at Spanish mines is only to be resumed on November 1. The New York price was cabled at about \$125, duty paid. It was reported that further good quantities have been booked for export to Hongkong, Japan and New York.

OPIMUM is steady, with usual Turkey druggists' offering at 1s. 9½d. per unit. The following report has been received from Turkey:—

CONSTANTINOPLE, September 30.—Sales during the past fortnight have been 125 cases "druggists'" at from £T20 to £T24 per oke, 12 cases "softs" at £T24, and 11 cases Malatia at £T25 to £T26. Arrivals amounted to 1,124 "druggists'", 278 "softs," and 74 Malatia, a total of 1,476, against 1,485 for the same period last year. Stocks are now 1,354 "druggists'", 306 "softs," and 125 Malatia, giving a total of 1,785, against 1,618 last year. Export business has been quite active. The Dutch Government, who should be covering their 1930 requirements in Turkish opium, have made an initial purchase of 200 cases at Smyrna during the week. In spite of these sales and the persistent drought there are still some sellers.

PEPPER has been steady, with a moderate demand. Fair black Singapore on the spot is 1s. 5½d. For shipment, October-November is quoted at 1s. 4d. c.i.f. delivered weight. Lampung on the spot is 1s. 5d. For shipment, August-October has been sold at 1s. 4½d. to 1s. 4¾d., October-December 1s. 4d. to 1s. 3¾d. to 1s. 3½d. c.i.f. delivered weight. Fair Tellicherry spot 1s. 6½d. and January-March shipment 137s. c.i.f. Alleppy, spot 1s. 6d. and January-March shipment 135s. c.i.f. White Muntok, on the spot 2s. 2d. For shipment August-October sold at 1s. 10½d. to 1s. 11½d. to 1s. 10½d., October-December 1s. 10½d. to 1s. 10½d. to 1s. 10½d. c.i.f.

PIMENTO.—Spot sales have been made at 11½d. per lb., and for October-November shipment 98s. per cwt. c.i.f. is quoted.

RUBBER.—Since our last there has been a decidedly better tone, and although at the close prices are unchanged, at one time spot ribbed smoked sheet was done up to 9½d. and first crepe 9½d. per lb. The best demand has been for spot and near rubber, and America has been the chief buyer. There has also been a fair business done for direct shipment from the East at full prices. The premium on "forward" continues, but there has been very little speculative business done over the past few days, as the movement in prices is too small to encourage operators. The statistical position continues to command the principal interest, and last week there was a further substantial reduction in stocks, viz., 2,155 tons, owing to very heavy deliveries. The London stock now stands at 27,370 tons, against 66,664 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): September and October 8½d., November-December 9d., January-March 9½d., April-June 9½d. per lb.

SARSAPARILLA.—Grey Jamaica is firm, with sales at 2s. per lb., and for native Jamaica prices are easier in view of the plentiful supply: good red is 1s. 8d., medium red 1s. 7d., and mixed colours 1s. 6d. Honduras is 2s. 3d. to 2s. 6d., and Mexican 8½d. per lb.

SEEDS.—Business generally has been a little better during the past week, with prices as follows: ANISE.—Spanish is 60s. and Russian 28s. CANARY continues firm: Mazagan is 18s. 6d. spot and 18s. 3d. c.i.f. for November shipment; Saffi is offered at 18s. c.i.f. CARAWAY.—The recent advance in Dutch is maintained at 37s. 6d. c.i.f.; spot price is 36s. 6d. CUMIN.—Maltese is 54s. spot and 47s. c.i.f. is quoted forward. Morocco is easier at 42s. 6d. spot, and 41s. 6d. c.i.f. is quoted for forward shipment. CORIANDER.—Morocco is 20s. 6d. spot, and 18s. c.i.f. is asked for forward shipment. Russian is 21s. spot. FENUGREEK.—Morocco is 16s. 6d. to 16s. 9d. per cwt. spot, and 16s. 3d. c.i.f. is quoted for forward shipment. HEMP.—Manchurian is 19s. 6d. on the spot. LINSEED.—Mazagan is firmer at 20s. spot, and 19s. 6d. c.i.f. is quoted forward, and extra good quality Morocco at 21s. spot. MUSTARD.—English is firmer at from 28s. to 30s. 6d. spot. FENNEL.—Indian is 72s. on the spot.

SENEGA remains firm at from 5s. to 5s. 1d. per lb. on the spot. The "Alaunia" from Montreal has brought 86 bales to London this week.

SHELLAC is lower, usual standard TN orange quality offering at 217s. 6d. per cwt.; fine orange is 235s. to 320s., pure button 247s. 6d., and AC cakey 235s. To arrive, sales of TN for September-October shipment have been made at 202s. 6d. and October-November at 200s. c.i.f. Sales for delivery include TN for October at 211s. to 205s. to 207s. 6d., and December 212s. 6d. to 208s. 6d.

SQUILL of good white colour is obtainable at 27s. 6d. per cwt. on the spot.

STRAMONIUM LEAVES.—Hungarian offer at 57s. 6d. and Italian at 50s. per cwt. on the spot; 85 bales have arrived from Leghorn.

TRAGACANTH.—A fair amount of business has been done, especially in grades between £8 and £15 per cwt., for which higher prices are asked. Good selected No. 1 ribbon is £30 per cwt.; ordinary No. 1, £23 to £29; fair seconds, £24 to £25; thirds, £20 to £23; fourths, £15 to £19; good clean thin Persian leaf, £12 to £14; fair to medium thick leaf, £8 to £11; dark sorts, £6 to £7 10s., and low hoggy, 85s. to 105s. per cwt.

WAX (BEES').—Rather more business has been done recently, and the undertone is firmer, nothing being available under 160s. per cwt. for East African, and to arrive 155s. to 156s. c.i.f. is quoted. Benguela has been sold at £8 spot.

WAX (VEGETABLE).—It is anticipated that the prices of *Carnauba* will improve when the revival in demand takes place, and prices are well maintained in primary markets, with less disposition to sell. Current rates are:—Spot fatty grey, 120s. to 122s. 6d., and 114s. c.i.f.; chalky grey is slightly easier at 125s. spot and 118s. c.i.f. Primera is 210s. spot and 190s. c.i.f. Mediana 190s. spot (paid) and 180s. c.i.f.

Essential Oils

REVIVAL of interest is apparent this week, and in a number of articles there are slight price alterations. Japanese dementholised peppermint fluctuated considerably at the beginning of the week, but closes at about the same value as last week. Cajuput and clove are a shade firmer, while cassia and patchouli have eased down further. Lemon, orange and rosewood show lower values.

The following are the quantities and values of natural essential oils (other than turpentine) imported into and re-exported from Great Britain during September 1928, compared with the same months in 1926 and in 1927, also for the nine months ending September in the respective years:—

		1926	1927	1928
Sept. imports (other	lb.	230,001	350,779	304,160
than turpentine)	value	£83,636	£89,455	£90,403
Jan.-Sept. imports	do. lb.	3,301,477	2,784,308	3,246,545
	value	£1,019,209	£801,784	£897,676
Sept. re-exports	do. lb.	59,390	48,900	35,393
	value	£20,891	£17,350	£18,599
Jan.-Sept. do.	do. lb.	620,706	577,650	599,563
	value	£246,426	£233,156	£222,112

ANISE (STAR).—"Red Ship" is firmly held at 2s. 5d. per lb. on the spot. Forward quotations are 2s. 4d. c.i.f. in cases and 2s. 1½d. c.i.f. in drums.

BAY is unchanged at 7s. 2d. per lb. on the spot, for 50-55 per cent. phenols.

BERGAMOT is weak at 22s. per lb. on the spot for 37-38 per cent. l.a. Prompt shipment is unchanged at 21s. 6d. per lb. c.i.f., and new crop is offered at 21s. c.i.f.

CAJUPUT is slightly firmer at 3s. 1d. per lb. on the spot for genuine in original bottles.

CANANGA.—Java on the spot is barely maintained at 11s. per lb., with the shipment value at 10s. 6d. c.i.f.

CASSIA.—The position is not by any means strong, and the spot value has eased down to 5s. 9d. per lb. for 80-85 per cent. c.a., free from alcohol. Offers are made at 5s. c.i.f. for shipment.

CEDARWOOD is firm on the spot at 1s. 4½d. per lb. in cases and 1s. 3d. in drums.

CITRONELLA is unchanged. Ceylon is quoted at 1s. 8d. per lb. on the spot and 1s. 6d. c.i.f. Java is worth 1s. 10½d. per lb. on the spot and just under 1s. 10d. c.i.f.

CLOVE.—English distilled from first hands is now quoted at 7s. 6d. to 7s. 9d. per lb., but there are still second hand parcels at prices well below that figure.

GERANIUM.—Bourbon is very firm at 20s. 6d. to 21s. per lb. on the spot. Business at the source is difficult, but quotations of 19s. 9d. c.i.f. either afloat or at Marseilles are given. Algerian is also firm at 16s. 6d. on the spot and 17s. 3d. c.i.f. for shipment.

JUNIPER BERRY.—B.P. (exot.) quality is on the easy side at 6s. per lb. on the spot. Genuine Hungarian is quoted at 8s. to 8s. 3d. per lb. on the spot, as to quantity.

LAVENDER is firm at 15s. 6d. per lb. on the spot, with the future outlook in favour of higher prices. Replacement costs in France are as high as the present spot value.

LEMON.—Business in new crop has been done at 11s. 6d. per lb. c.i.f., and the spot value has receded to from 12s. 6d. to 13s. per lb., according to seller. For prompt shipment the quotation is 12s. 2d. to 12s. 8d. per lb. c.i.f. as to brand.

LEMONGRASS is very weak at 3s. 1½d. per lb. on the spot and about 3s. c.i.f.

LIME is in more demand on the spot, and holders are now quoting 29s. to 29s. 6d. per lb., as to quantity, for West Indian distilled.

MANDARIN is quoted at 30s. per lb. on the spot and 23s. per lb. c.i.f. prompt shipment, for best quality Sicilian.

ORANGE.—The market value on the spot seems to be purely a matter of negotiation, but for Sicilian sweet 17s. per lb. is about the figure, and business in one of the recognised brands was done at this during the week. New crop continues to be offered at 15s. 6d. to 16s. c.i.f. for the best brands, but the forward market is neglected pending the stabilisation of values. The feeling seems to be that 15s. c.i.f. should be the quotation. West Indian for October-November shipment has been offered at 15s. per lb. c.i.f.

PATCHOULI.—The Singapore quality is now quoted by one dealer at 21s. per lb. on the spot. Seychelles is available at 19s. per lb. on the spot.

PEPPERMINT.—American natural tin oil is still rather quiet and unchanged at 13s. 9d. to 14s. 3d. per lb. on the spot, as to brand. The supplies on this side are not large. For shipment 13s. 3d. to 13s. 9d. c.i.f. is quoted. H.G.H. is worth 19s. per lb. on the spot and 18s. c.i.f. Japanese demethylated fluctuated considerably during the week, and on Tuesday values for Kobayashi-Suzuki were:—7s. 9d. per lb. on the spot; 7s. 6d. c.i.f. for September-October shipment; 7s. 4½d. c.i.f. for October-December shipment; and 7s. 3d. for January-March. There were sellers at each of these quotations. A cable from Japan has sent prices up again, and the most recent quotations are—8s. 3d. per lb. on the spot from second hands and 8s. 6d. (nominal) in first hands. October-December shipment is 7s. 9d. c.i.f., although 8s. is also mentioned.

ROSEWOOD (BOIS DE ROSE).—Cayenne is again lower at 8s. per lb. on the spot. Brazilian could be bought at 7s. per lb.

SAGE.—Dalmatian is quoted at 8s. 6d. to 9s. per lb. c.i.f., as to quantity.

SANDALWOOD.—Australian is quoted as follows on the spot, according to the optical rotation, the other properties such as specific gravity being all uniform:—French Codex, 15s. 6d. per lb.; standard grade, 17s. per lb.; special grade, 20s. per lb. There has been no change in the official prices of Mysore oil, which stands at 25s. per lb. in single cases, 24s. 6d. in five-case lots, and 24s. for five-case lots in one delivery.

SPEARMINT is firm at 19s. 6d. per lb. on the spot and 18s. 4d. c.i.f., as to quantity.

WORMSEED (CHENOPodium) is slightly easier for shipment at 10s. 3d. per lb. c.i.f. The spot value of 12s. is maintained.

The following arrivals have taken place from the countries indicated during the period October 3 to October 9 (inclusive):—Almond (Fr.), 30 cs.; anise (Ch.), 30 cs.; bay (E.W.I.), 1 cs.; camphor (U.S.) 2 dm.; (Jp.) 13 dm.; cananga (Jv.), 1 dm.; cinnamon (Ger.), 1 cs.; citronella (Jv.) 14 dm.; (Br. Ind.) 10 dm.; dill (Ger.), 2 cs.; eucalyptus (Aust.), 60 cs.; geranium (Fr.) 1 dm., (Alg.) 1 dm., (U.S.) 4 dm.; lavender (Fr.), 7 dm. 1 cask; lemon (It.), 14 cs.; lemongrass (Br. Ind.), 3 dm.; lime (B.W.I.), 1 cs.; musk (Fr.), 1 cs.; orange (It.), 1 cs.; patchouli (Ch.) 15 cs.; (Strs.) 2 cs.; peppermint (Pol.) 6 cs.; (U.S.) 10 cs. 4 pkgs.; rose (Fr.), 1 cs.; rosemary and spike (Sp.), 7 dm.; spearmint (U.S.), 6 cs.; spike (Fr.), 1 cs.; thyme (Pal.), 2 dm.; wormseed (U.S.), 2 cs.; undescribed (Fr.), 11 cs.

The following arrivals have taken place from the countries indicated during the period October 10 to October 16 (inclusive): Anise (Ch.), 10 dm.; bergamot (It.) 4 cs.; cassia (U.S.) 8 cs.; (Ger.) 10 cs.; citronella (Jv.), 4 dm.; eucalyptus (Aust.) 160 cs. 11 dm.; (Sp.) 20 cs. 3 dm.; geranium (Fr.) 5 cs. 1 dm., (Alg.) 1 dm., (U.S.) 2 dm.; jasmine (Fr.), 1 cs.; juniper berry (Ger.), 4 cs.; lavender (Fr.) 1 kg 2 dm.; (Br. Ind.) 2 dm.; lemon (It.) 5 cs.; (Ger.) 2 dm.; lemongrass and citronella (Guat.), 6 dm.; lime (B.W.I.), 4 cs.; linaloe (Fr.), 5 dm.; mandarin (It.), 2 cs.; orange (U.S.), 2 dm. 25 cs.; patchouli (Strs.), 5 cs.; peppermint (U.S.) 30 cs. 5 dm.; (Ger.) 8 cs.; rose (Fr.), 2 cs.; sandalwood (Br. Ind.), 60 cs.; saffra (U.S.), 5 cs.; spearmint (U.S.), 2 cs.; vetiver (Reun.), 10 cs.; wormseed (U.S.), 2 cs.; undescribed (Aust.), 40 cs.

Pharmaceutical Chemicals, etc.

With practically no change to record during the past week, the general tone of this market continues steady throughout. Business, however, seems to be still far from satisfactory in volume.

ACETANILIDE continues slow at from 1s. 4½d. to 1s. 6d. per lb., as to quantity, for B.P. crystals and powder.

AMIDOPYRIN is quoted from 7s. 9d. to 8s. per lb. spot.

ASPIRIN is about steady as quoted from 2s. 3d. to 2s. 6d. per lb., as to quantity; business has been about average.

BENZONAPHTHOL remains quiet and unchanged at 2s. 10d. per lb. in five-kilo parcels.

BISMUTH SALTS are unchanged: carbonate, 9s. 9d.; subnitrate, 8s. 3d. per lb. in cwt. lots.

BROMIDES are unchanged and business continues limited: dealers quote ammonium, 1s. 11d.; potassium, B.P. crystals, 1s. 7½d.; granular, 1s. 7d.; sodium, B.P., 1s. 10d. per lb., for quantities in cases. British makers' list prices: Ammonium, 1s. 11½d. to 2s. 1d.; potassium, B.P., 1s. 8½d. to 1s. 9½d.; sodium, B.P., 1s. 10½d. to 2s., per lb., as to quantity.

CALCIUM LACTATE is maintained at last week's higher prices of about 1s. 2½d. to 1s. 3d. per lb., as to quantity; small parcels, 1s. 3½d.

CHLORAL HYDRATE is quiet and unchanged; duty paid crystals, 3s. 12d. to 3s. 3d. per lb.

CITRIC ACID (B.P. CRYSTALS).—The position continues obscure as regards forward business; spot continues nominal at 2s. 9d. per lb. for foreign, less 5 per cent., with little available; quotations from the Continent are expected in the near future and high rates are forecasted.

CREOSOTE (B.P.) remains quiet, and quoted prices are unchanged at 1s. 8d. to 1s. 8½d. per lb.

CREOSOTE CARBONATE is dull; spot is quoted at 5s. 10d. to 6s. per lb.

GUAIACOL CARBONATE is meeting with little demand; spot quoted at 4s. 6d. to 4s. 9d. per lb.

HEXAMINE is a steady market with competition keen at times; quantities are quoted from 1s. 10½d. to 1s. 11d. per lb.; smaller parcels, about 2s. per lb.

HYDROQUINONE is unchanged at controlled prices: 3s. 7½d. to 4s. 6d. per lb., as to quantity.

LACTIC ACID (B.P.) continues steady at the fixed prices of 1s. 6½d. to 1s. 10½d. per lb., as to quantity.

METHYL SALICYLATE (B.P.) continues steady with a fair business moving: quoted from 1s. 4d. to 1s. 6d. per lb.

METHYL SULPHONAL is dull of sale: spot is quoted from 8s. 9d. per lb.

PARA-FORMALDEHYDE is meeting with fair business: quantities are available from 1s. 7d. to 1s. 8d. per lb., in kegs; small parcels, 1s. 8½d.

PARALDEHYDE is quiet and unchanged: quantities in carboys, 1s. 1d.; in bottles, 1s. 3d. per lb.

PHENACETIN is unchanged with a fair business moving at keen prices: quoted from 2s. 4d. to 2s. 6d. per lb.

PHENAZONE is shaded for important business owing to keen competition: quoted from 3s. 9d. to 3s. 11d. per lb.

PHENOLPHTHALEIN continues at the Convention prices of 5s. 11d. to 6s. 1½d. per lb.; an outside source appears to be cutting these prices a trifle.

POTASSIUM PERMANGANATE meets with little business of importance; quantities in drums from 5½d. per lb.; small parcels, 6d. per lb.

RESORCIN continues to be quoted from 2s. 10d. to 3s. per lb., with slightly less being taken for big business.

SALICYLIC ACID (B.P.) is steady and in fair demand at 1s. 3d. to 1s. 6d. per lb., as to quantity.

SALOL shows no change at the controlled prices: two-cwt. lots, 2s. 3d.; one-cwt., 2s. 4½d.; 56-lbs., 2s. 5d.; small parcels, 2s. 6d. per lb.

SODIUM BENZOATE (B.P.) remains quiet, but quoted prices are maintained: quantities in two-cwt. barrels, from 1s. 7½d.; ordinary lots, from 1s. 8d. per lb.

SODIUM DIETHYLBARBITURATE remains slow of sale; spot is offered from 7s. 10d. per lb.

SODIUM SALICYLATE (B.P.) continues fairly busy, with prices still keen: quantities of crystals, about 1s. 7d.; powder, about 1s. 6d. per lb., in cases; smaller parcels, 1d. more.

SULPHONAL continues unchanged, with business quiet; spot is quoted from 6s. 6d. per lb.

TANNIC ACID—B.P. levis in quantities in kegs is quoted from about 2s. 10d. per lb.; small parcels, from 3s. to 3s. 3d. per lb.; market has been slow.

TARTARIC ACID (B.P. crystals) is offered on spot from 1s. 4d. to 1s. 4½d. per lb., less 5 per cent. for foreign, with little business moving; the market is, however, steady.

TERPIN HYDRATE is offered at 1s. 5d. per lb. for quantities to come forward; market slow.

THYMOL is very quiet; dealers are offering synthetic fine white at about 9s. 6d. per lb., in cwt. lots.

VANILLIN (100 per cent. from cloves) remains dull, with prices ranging from 16s. 6d. to 17s. 6d. per lb.

Industrial Chemicals, etc.

London, October 17.

The main comment this week refers to the generally poor volume of business in these products. Prices, on the whole, are quite steady.

ACETIC ACID continues steady, with the usual routine business moving: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE continues firm to come forward: B.G.S., ten-ton lots, £74 10s.; five-ton lots, £75 10s.; one ton, £76 10s.; less than one ton, £77 10s. per ton, in free drums, ex store.

AMMONIUM CHLORIDE remains slow of sale: dealers quote grey galvanising from £21 to £21 7s. 6d. per ton, in casks, ex store; slightly cheaper for contracts.

ARSENIC.—There was only a restricted demand, but the market is steady at from £16 10s. to £16 12s. 6d. for Cornish 99 per cent. The quotation for Mexican high-grade is about £17. c.i.f. Liverpool.

BARIUM CHLORIDE is well maintained on spot and forward: supplies are limited: spot, 98 to 100 per cent. prime white crystals, £10 10s. per ton, in casks, ex store; forward, £8 10s. f.o.b. Continent.

BLEACHING POWDER continues to be quoted from £6 12s. 6d. to £7 per ton, carriage paid, for quantities of 35 to 37 per cent. available chlorine.

COBALT is steady, with the metal unchanged at the official figure of 10s. per lb. Black oxide is 8s. and grey 8s. 10d., but business is being done at well under these figures for important quantities.

COPPER SULPHATE.—There has been a moderate inquiry for export and the tone is firm, with casks quoted at £25 5s. to £25 15s. per ton f.o.b., less 5 per cent. September exports were only 609 tons, making the total for nine months 40,347 tons, against 36,014 tons.

CREAM OF TARTAR remains quiet, but the market is about steady at 93s. to 94s. per cwt., less 2½ per cent. for foreign 99 to 100 per cent. powder.

FORMALDEHYDE continues competitive where big business is concerned: ordinary quantities of 40 per cent. by volume steady at £37 per ton, in casks, ex store.

FORMIC ACID has received a little more attention of late: quotations are steady from £46 to £46 12s. 6d. per ton for 85 per cent. in carboys, ex wharf.

ISOPROPYL ALCOHOL is still being offered at prices varying from 10s. 9d. to 12s. 6d. per gallon for quantities; the market is unsteady, but tends to harden up to the higher rates.

OXALIC ACID has met with more inquiry of late: quoted prices are steady at £29 15s. to £30 per ton, ex wharf, for quantities; single cwt.s., 33s. ex store.

POTASH CAUSTIC.—Business has been unusually slow; Convention prices are unchanged: spot, 88 to 92 per cent. solid, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases.

POTASSIUM CARBONATE continues in occasional demand, with prices steady: spot, 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; cheaper for contracts.

POTASSIUM CHLORATE is offered on spot in small lots from 3½d. per lb. ex store, for which there is the usual demand; quantities to arrive at 2½d. ex wharf.

POTASSIUM PERMANGANATE meets with very little inquiry: commercial quality, in two-cwt. drums, from 5½d. to 5¼d. per lb., ex store.

POTASSIUM PRUSSIAN is steady, with quantities quoted from £63 10s. to £65 10s. per ton, in casks; single casks, 7d.; small parcels, 7½d. per lb.

SAL AMMONIAC is still in rather poor demand: dog-tooth crystals, £30; medium, about £28 10s.; fine white crystals, £18 per ton, in casks, ex store; slightly cheaper for contracts.

SODIUM ACETATE continues firm on account of limited supplies: spot is fully £20 10s. to £21 per ton, in casks, ex store.

SODIUM HYPOSULPHITE continues quiet, with prices steady: dealers quote pea crystals, in one-cwt. kegs, at £15 per ton; commercial, £9 10s. per ton, in casks, ex store; British makers' price for pea crystals to home consumers on contract, £15 per ton, carriage paid to buyer's station.

SODIUM NITRATE.—The Nitrate Corporation prices, ranging from £10 2s. for October delivery up to £10 13s. for April-June next delivery, are unchanged, for agricultural quality; refined would be about 7s. 6d. per ton more.

SODIUM PRUSSIAN is steady and there has been fair inquiry on the market: quantities from 4½d. to 4¾d. per lb.; small lots, from 5d.

SULPHUR is quietly steady, with a fair demand both for crude and refined: American crude is £5 12s. 6d. to £5 17s. 6d.; Sicilian flowers £12 7s. 6d., refined ground £11, and roll at £9 15s. per ton, c.i.f. to arrive.

COAL-TAR PRODUCTS, ETC.—Conditions in this market show little change on the week. Pitch is holding on quotation but the market remains unsettled. Other products are unchanged. ANILINE OIL continues to be quoted at about 8d. per lb., packages extra, carriage paid. ANILINE SALT is unchanged at from 8d. per lb., packages extra, carriage paid. BETANAPHTHOL is steady at from 10d. per lb., carriage paid. CARBOLIC ACID CRYSTALS remain distinctly quiet: minimum five-ton lots, home trade, carriage paid, and export, f.o.b., in drums with overcasks, 6½d. per lb. for 39° to 40° C. ice crystals: crude carbolic 60's, about 2s. gallon, naked at works. CREOSOTE OIL is about steady: ex works, 6¼d.; f.o.b., 7½d. per gallon, in bulk quantities. NAPHTHALENE is very slow: imported, flakes and balls, £16 10s. per ton, in cases, ex wharf; home makes, crystals, £12 10s. to £14 10s. per ton; crude, hot pressed, £8 5s. per ton. METHYL ALCOHOL is steady and business continues on a good scale: spot, £45 per ton, in drums, ex store; quantities to come forward at much cheaper prices. PYRIDINE is idle: nominal, from 4s. to 5s. per gallon, f.o.b. TOLUOL continues steady and in limited call: commercial 90's, 1s. 7d. to 1s. 8d.; pure, 1s. 10d. to 1s. 11d. per gallon at works. XYLOL is dull: commercial, about 1s. 7d.; pure, about 1s. 9d. per gallon at works. PITCH is maintained on quotation at last week's figure of 40s. per ton, f.o.b. East Coast; market remains dull.

Fixed Oils, etc.

RATHER better general trade is reported this week and some products are much healthier. Prices are generally maintained and one or two items have advanced. Cotton oils are about the only poor feature. ACID OILS are steady at full rates: coconut and/or palm kernel, 37s. 6d.; ground nut, 32s.; soya, 29s. spot. CASTOR.—Slightly higher prices are quoted; market is nominal and dull: pharmaceutical, 50s.; first pressings, 45s.; second pressings, 42s. 6d. per cwt. on the spot in not less than one-ton lots. COCONUT remains quiet but is steady: deodorised, spot 46s.; Ceylon, 43s. 6d. c.i.f.; Cochin, 52s. 6d. c.i.f. COTTON has been quiet and prices for all grades are easier: deodorised, 40s.; common edible, 38s.; soapmaking, 36s.; crude, 33s. 6d. spot. GROUND NUT is dull but fairly steady: deodorised, spot 47s.; crude Oriental, 42s. c.i.f. PALM KERNEL is quiet and a point easier: deodorised, 44s. 6d.; crude, 40s. spot. PALM.—Prices are about level on the week, but the market has been quieter and is not so firm: Lagos, 39s. 3d.; softs, 38s. 3d.; mediums, 38s. 9d.; hards, 39s. 3d.; bleached, 41s. 9d. spot. RAPE continues firm: refined, 45s. 9d.; crude, 43s. 9d. spot. SOYA is quiet but steady: deodorised, 38s. 6d.; crude, 35s. spot. LINSEED (raw, naked).—Prices show little alteration on the week and the market is steady but quiet: on spot, 29s. 9d.; October, 28s. 9d.; November-December, 28s. 9d.; January-April, 28s. 9d.; May-August, 29s.; September-December, 29s. 6d. Boiled oil, on spot 32s. 3d. Hull, on spot 29s. 9d.; October, 29s. 9d.; November-December, 29s. 7½d.; January-April, 29s. 4½d.; May-August, 29s. 4½d. TURPENTINE.—The tendency was again harder, but business on the spot here has not been active, in spite of the advance in rates. The spot price closed on Wednesday evening easier at 42s.; November-December, 42s. 3d.; January-April, 43s. 6d. London deliveries for last week were 1,882 barrels, making the total since January 1 83,247 barrels, against 96,233 barrels the same period last year. Stocks were returned at 31,876 barrels, which, combined with the landings and afloats, made the London visible supply 39,851 barrels, which compares with 56,795 barrels at the same date last year. RESIN.—A fair business has been put through on the spot and sellers are not eager in view of the continued firmness in America. C.i.f. terms for shipment were as follows: B/D 19s. 4½d. to 19s. 7½d., E to K 19s. 9d., M to N 20s. 1½d. to 21s. 3d., W.G. 23s., and W.W. 24s. 4½d. Terms ex wharf stand at 9d. per cwt. above these figures except for W.W., which is scarce and selling at 25s. 9d. WOOD.—Hankow, in barrels, is easier on spot at 73s. 6d. to 74s.; September-October, 74s.; October-November, 74s. c.i.f.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Products in this section continue steady, with little change to record. Business has been fair on limited lines. BENZOL continues active and firm: crude 65's, 11½d.; standard motor, 1s. 4½d.; pure, 1s. 9½d. per gallon, ex works, in tank wagons; ex London works, about twopence dearer. FUEL OILS.—Prices quoted are steady, business fair: 950 gravity, £3 10s.; 890 gravity, £4 2s. 6d. per ton ex tank. PARAFFIN WAX and SCALE.—Wax is firm at from 3d. to 5d. per lb., according to melting point, in bags. Scale is offered for shipment at about £25 12s. 6d. per ton c.i.f. U.K. port. PARAFFIN OILS.—Markets are unchanged: American standard white, 10½d.; water-white, 11½d. per gallon, barrels free; Roumanian water-white kerosene, 4½d. per gallon, ex tank. WHITE OILS continue steady but quiet: special No. 1, £23 15s.; No. 1, £23 2s. 6d.; No. 3 half-white, £20 10s.; No. 4 half-white, £19 10s. per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS.—Business is moderate; market about steady: 90 to 160, 1s. 1d. to 1s. 1½d.; heavy 90 to 190, 1½d. to 1s. per gallon, naked at works. PETROLEUM JELLIES continue steady, with a fair business moving: white to snow-white, £39 to £48 10s.; amber and yellow, £18 10s. to £22; dark stiff green, £11 17s. 6d. per ton, barrels free, ex wharf. LUBRICATING OILS continue steady on spot; business fair: spot, pales, £9 15s. to £22; reds, £11 to £21 10s.; dark cylinders, £11 15s. to £23; filtered cylinders, £17 15s. to £29 per ton, less 2½ per cent., ex wharf; slightly less for tank lots. SOLUBLE OIL and CUTTING COMPOUNDS, £20 to £23 per ton net. No. 1 RUSSIAN OIL is unchanged on spot at £14 per ton, less 2½ per cent., barrels free, ex wharf.

Jamaica Honey and Wax

REGULATIONS have been made by the Governor in Privy Council on July 31, 1928, under the Agricultural Produce Law, 1926, governing the exportation of wax and honey from Jamaica. The regulations prohibit the exportation of honey in any but new containers, which must be thoroughly clean, or of honey which has not been subsided or strained. All containers must be marked to the satisfaction of an Inspector of Produce with the words "Jamaica Honey." The exportation of adulterated wax from the Colony is prohibited by the regulations.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Two Suggestions

SIR,—Through your widely circulated paper I make two suggestions to the Council of the Pharmaceutical Society of Northern Ireland:—(1) After reading your full report of Mr. R. R. Bennett's opening address (at the opening of the Pharmaceutical Society's School in London) "Pharmacy as a Career," I think a similar function in Belfast would have good results. (2) I suggest that the Society should circularise the craft when the methylated-spirit licence has to be renewed.

Yours, etc.,

S. H. (6/10).

Twopence for Courtesy

SIR,—In September I received a circular from a well-known wholesale firm stating that they were broadcasting in the papers coupons for free copies of their 2d. price list, and asking me to give them away to all comers and to return the coupons to them. They also added: "For each coupon returned we will pay you 2d. for your courtesy." To make sure, I wrote stating that I took it for granted that the 2d. for the book would be returned, as well as the 2d. for "my courtesy." In their reply they informed me that they intended to pay me 2d. for the book—nothing for my "courtesy." I quote a portion of the letter I wrote in reply:—" . . . You are asking thousands of chemists who are not shareholders and who have no conceivable interest in your firm actively to support you and to push your own goods against those of your trade rivals, who are equally (to them) merely names and who maybe (for all they know) as worthy, or more worthy, of support. This work they are asked to do voluntarily and without fee or reward of any kind. . . . Supposing (which seems incredible) that you intend to postulate that the profit on the price list is sufficient reward for our 'courtesy'; let us examine, if you please, that contention. Each person, on an average, will hold the attention of the chemist for about five minutes with talk about the weather, the book, politics, and their own private affairs. Thus, the handing over of one dozen copies of the book will occupy an hour. The profit or wage will be 6d.—6d. for an hour's work for a stranger!" I have received no reply to this letter.—Yours truly,

KEITH LONGSTAFF (15/10).

Fulham, S.W.6.

Insurance Dispensing Remuneration

SIR,—The Minister of Health, in his address at the opening of the Birmingham School of Pharmacy (*C. & D.*, October 13, p. 469), made a great feature of the fact that panel chemists throughout the country dispensed as many as 54,000,000 scripts during the last year, and a still greater feature of the amount they were paid for these scripts, namely, £2,000,000, though why it should be considered a secret I cannot understand. Now it sounds very impressive to talk in millions, and big figures like these are bound to arrest the attention of the ordinary member of the public, and such a person is sure to reason to himself that the chemists must be doing exceptionally well out of the Insurance work to receive so much money, but if we analyse the amount and reduce them to terms in which we are accustomed to deal with in our daily business, the position will appear in an entirely different light. In the first place there were 9,000 pharmacists engaged in the contract and taking their due share of the 2,000,000, so that on the average they would receive £220 a year each, or about £4 a week, and for this sum they give an all-the-year-round service, including working days, Sundays, and holidays, 365 days in the year on duty. They also supply all the drugs and appliances ordered, irrespective of quantity or price, their own work of dispensing and serving, and as a sort of make-weight

they throw in the use of their premises and apparatus with all the accompanying overhead charges. I understand that the local dustmen or council labourers receive approximately the same sum for an eight-hour day, exclusive of holidays, and all their tools, etc., found. Looking at it in another way, the 54,000,000 scripts were dispensed at a cost of just over eightpence each, which is exactly the same amount as that quoted in the *C. & D.* Retail Price List as the "oncost" for dispensing a mixture as ascertained by accountant's figures, in addition to the retail price of the ingredients, so that what it really comes to is that in our service costing eightpence a script we are giving the drugs away as a free gift. And what a service it is; out of 4,000 samples taken for the testing of dispensing last year, 96 per cent. were found accurate, and the other 4 per cent. were probably only slight errors in percentage of innocuous ingredients, a service which is as near perfection as it is humanly possible to be, and it costs the Government nothing at all in capital outlay. If all the other State services could be run on the same lines the National Debt would speedily disappear.

Yours faithfully,

SERVICE (15/10).

SIR,—In reply to Mr. Blore (*C. & D.*, October 13), I am neither a pharmaceutical rabbit nor Bolshevik seeking to destroy the Society as such. In fact, I am not entirely unappreciative of the good work which the Society has done in the public interest, in the administration of the Pharmacy Acts, etc. But my ambition is to see it carry out a more vigorous policy for the benefit of the members than it has done since 1868. Sixty precious years with no change of heart on the part of chemists towards their Society or the Society towards its members! Until recently, comparing our organisation with that of other callings, and, measuring by the times in which we live, I do not consider that the progress made for the realisation of the objects of the Charter has been satisfactory. Dignity and strength of purpose and the force of disciplinary example and conduct would, in my opinion, by this time have secured a larger measure of State recognition than we now enjoy—a cohesion of the craft at large and powers on similar lines to those of the Medical Council in Great Britain and the Colonies. It might be reckoned a small thing, but I remember when the Council, as representing the Panel chemists, on one occasion argued that the use of the term "professional" in describing our service in communications would not be acceptable to the Commissioners, and the term was accordingly deleted; one of the many examples of submission that have led, step by step, to the present humiliating terms of service and inadequate pay. Again, the Minor graduate, under the present educational curriculum, is shut out from further advancement in the art, should circumstances enable him to wish to do so—the chief flaw in an otherwise admirable syllabus. Mr. Blore urges those who for once adopt a *nom de plume* to "come out into the open," but there is ground of excuse for men who, like the writer, are tied to their pharmacies from morn till eve, often when the rest of the community is at play, sometimes even in their beds. The apathy of chemists is not, at times, to be wondered at.—Yours truly,

PHARMACIST (15/10).

SIR,—Mr. Chamberlain, in his inaugural address at the opening of the Birmingham School of Pharmacy, duly reported in your journal of October 13, states that last year some 9,000 pharmacists in different parts of the country dispensed 54,000,000 prescriptions under the National Health Insurance Act, and that the bill in payment of same amounted to £2,000,000. In dissecting above figures, each pharmacist dispensed 6,000 scripts and received £222 4s. for same. The average dispensing fee is 5d. Therefore, 6,000 scripts at 5d. each equals £125. As this sum represents labour and oncost charges it should be deducted from the £222 4s. The N.H.I. tariff allows one-third oncost, so we find that as net profit per pharmacist for his year's work is left the sum of £24 6s. It is possible, even stretching the imagination, to say, that N.H.I. dispensing pays the pharmacist?—Yours truly,

J. D. M. (17/10).

Dispensing Notes and Difficulties

A Quinine and Iron Mixture

SIR,—Your querist (*C. & D.*, October 6, p. 446) may find that his aq. fort. is the trouble. With several waters the dissolved lime, etc., is enough to partially neutralise the acidity of the liq. ferri. . . . If he does not care to use aq. dest., let him try adding 3ss. (or q.s.) acid. hydrochl. dil. to the Winchester of aq. fort. before adding the other ingredients. All waters do not give this trouble, but many do. I had a similar bother, and the dilute hydrochloric acid solved it.

Yours, etc.,
M. P. WALKER.

Pewsey.

Deposit from Rhubarb Tincture

SIR,—Can you tell me why the following should throw down a heavy deposit, and what the nature of the deposit is?—

Liq. strych. hyd.	...	...	3j.
Tinct. rhei. co.	...	...	3iij.
Aq. desti.	...	...	ad 3viij.

Yours faithfully,
E. A. (25/9).

[The precipitate consists of tannin and colouring matter of the rhubarb, and contains strychnine. The precipitate diffuses quite readily, and although the mixture is rather unsightly there is no reason why it should not be dispensed.]

A Coal-Tar Lotion

SIR,—Is the lotion made according to the following formula incompatible? On standing some time a layer of tarry deposit settles at the bottom of the bottle.

Sodii bicarb.	...	...	3j.
Ac. carb. liq.	...	...	3iij.
Liq. hamam. dest.	...	...	3vj.
Tr. iodi mitis	...	...	3j.
Aquam	...	...	ad 3xl.

Yours truly,
D. E. J.

[We made up this lotion with B.P. materials and found no tar deposit after standing for one week. The lotion appears to be a very dilute one which could be used freely for the purpose mentioned. The value of iodine in the presence of coal tar is very questionable.]

Legal Queries

Caradoc (16/810).—Is the wife of an old-age pensioner, who has never herself been an insured person, entitled to free medical attendance?—[No.]

Lex (17/810) asks if it is illegal for a small general shopkeeper to sell such preparations as Indian brandy, tincture of iodine, and sweet spirit of nitre without a licence, and if so, what kind of licence is necessary. [It is illegal for a general shopkeeper to sell any of these preparations without licence. The proper licence would be one to sell spirits. In the case of a duly registered chemist and druggist the position is different, since under the Act of 1742 a chemist would be able to sell without licence such preparations as sweet spirits of nitre and tincture of iodine, as they would come under the definition of "spirits made up in medicine." As to the so-called Indian brandy, it would be necessary to know its composition before deciding definitely how it stands as regards licence. If it is prepared according to a non-exciseable formula no licence for its sale is required, otherwise a licence to retail sweets is necessary. But when a liquid sold as Indian brandy came under Revenue notice some time ago, it was found, according to the report of the Government chemist, to be simply a very impure hyponitrous ether, highly sweetened and coloured, and made from methylated spirits. The sale of such a preparation is under all circumstances illegal.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Address Wanted

Mr. Vernon Thompson, chemist and druggist, Sparkbrook, Birmingham, asks if any *C. & D.* subscriber could give him the present address of Dr. Douglas Lyon, late of Moseley and Sparkbrook, Birmingham?

A Problem in Weights

In answer to Mr. W. M. Tim's query as to the fewest number of weights required to weigh three 3viij. quantities for a prescription, we can do it in this shop with two, a 3v. and a 3iij. (troy) weight. Is a 100-gr. weight procurable, and if so, would the authorities stamp it?—*Balance* (1/10).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Bismuth (18/88).—DISCOLORATION OF BISMUTH MIXTURE.—From experiments we have conducted with tablets, and also with a mixture containing bismuth carbonate, the discoloration is attributable to the actinic effect of strong sunlight. It occurs, apparently, only when they are exposed to intense sunlight, and is characteristic of several salts of heavy metals.

J. H. E. (19/89).—The pills submitted, which you state are recommended for constipation and everyday ailments and sold by health lecturers, appear to be simply compound pill of colocynth. They contain no mercury.

Lux (6/108).—DILUTION OF SULPHURIC ACID.—A mixture of 100 parts by weight of water at 15°–20° C. with 155 parts of sulphuric acid of s.g. 1.84 will give an acid of s.g. 1.5.

E. M. Q. (3/810).—A solution of iodine in isopropyl alcohol, analogous to the B.P. tincture of iodine, has been found in practice to yield satisfactory results, equal to those produced by the use of ethyl alcohol as solvent. However, since the rebate can be claimed on tincture of iodine B.P. there would be no economy in substituting isopropyl alcohol for ethyl alcohol in its preparation for hospital use.

H. T. (9/810).—MIST. LAVAND. CO.—The formula of this mixture ordered for use in post offices is:—

Spt. chlorof.	...	...	mxx.
Tr. lavand. co.	...	...	ad 3j.

Signe: For periodic pains. One teaspoonful to be taken in water when required.

J. M. B. (5/108).—INHALANT.—The following are formulas of the type of preparation you require; others were given in the *C. & D.*, September 22, p. 362:—

I		II	
<i>Vapo-Pine P.F.1</i>		Menthol	10
Menthol	3x.	Ol. eucal.	15
Tereben.	m260	Ol. pini pumil.	25
Eau de Cologne	3x.	Ess. eau de Cologne	q.s.
Aceton	3xx.	Alcohol	10
		Ol. tereb. rect.	100

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," October 15, 1878

Sale of Food and Drugs Act

Setting aside disputed questions of nomenclature and recognised strengths, the only real cases of absolute admixture of drugs that ever came under our notice were one of a sample of powdered jalap, containing linseed flour, and one of sulphate of quinine, containing more than 90 per cent. of the other cinchona alkaloids. The former article was, it turned out, purchased, not of a chemist, but at a small oil-shop, and, notwithstanding the certificate, the authorities declined to prosecute, on the ground that the oilman, not understanding drugs, knew no better.—"The Analyst."



[Commenced C. & D., July 5, 1924]

Photographic Plates, Sizes.—The following are the usual sizes (in inches) adopted by British manufacturers for plates:— $2\frac{1}{16} \times 1\frac{1}{8}$; $3\frac{1}{2} \times 2\frac{1}{2}$; $3\frac{1}{4} \times 3\frac{1}{4}$ (lantern plate); $4\frac{1}{4} \times 3\frac{1}{4}$ (quarter plate); 5×4 ; $5\frac{1}{2} \times 3\frac{1}{2}$ (postcard); $6\frac{1}{2} \times 4\frac{1}{4}$; $6\frac{1}{2} \times 4\frac{3}{4}$ (half-plate); $6\frac{3}{4} \times 3\frac{1}{2}$ (stereoscopic); 7×5 ; $8\frac{1}{2} \times 6\frac{1}{2}$ (whole plate); 10×8 ; 12×10 ; 15×12 ; 18×16 . The chief sizes adopted by Continental manufacturers are as follows:—

inches				cm.			
1.5	×	1.5	..	..	4	×	4
1.77	×	2.36	..	..	4½	×	6
2.56	×	3.5	..	..	6½	×	9
3.54	×	4.7	..	..	9	×	12
4.3	×	5.9	..	..	11	×	15
4.7	×	6.29	..	..	12	×	16
4.7	×	7.87	..	..	12	×	20
5.1	×	7.08	..	..	13	×	18
5.9	×	8.26	..	..	15	×	21
7.08	×	9.45	..	..	18	×	24
8.26	×	10.63	..	..	21	×	27
9.45	×	11.8	..	..	24	×	30

Photographic Printing Papers.—These may be classified as silver printing out papers, silver development papers and miscellaneous, the last-named including the iron, bichromate and platinum processes. There are two kinds of printing-out paper, that which requires toning and fixing, generally known as P.O.P., and that which only requires fixing, spoken of as self-toning paper. The former consists of a paper base, supporting an emulsion coating of gelatin or collodion mixed with silver chloride and a soluble silver salt. On exposure the silver salts become reduced to metallic silver. To acquire a more pleasing colour prints on P.O.P. are toned, and to ensure permanence they are fixed. These operations may be performed separately (in which case the toning must be done first) or together. In toning gold is deposited on the silver image, and in fixing the unaltered and unwanted silver salts are removed. In the case of self-toning papers the gold salt is contained in the paper. Owing chiefly to the rapidity with which prints can be made, the development papers are now of greater importance commercially than the printing-out papers. The silver development papers can be divided into two classes, namely, bromide papers and chloride papers. There are two kinds of bromide papers—those which contain silver bromide with or without silver chloride and iodide, and those which contain a large proportion of chloride as well as bromide. The latter are known as warm-tone or chlorobromide papers, as, if fully exposed and developed in a restrained developer, they give a brownish image. Chloride papers are generally referred to as gaslight papers. Most makers of development papers offer three qualities of paper—soft, normal and vigorous—and the one used depends on the contrast of the negative. Owing to the fact that most of the exposures received by dealers for developing and printing are under-exposed, the vigorous paper is extensively used in these establishments, though to obtain the best results the paper should in each case be chosen according to the negative.

Photographic Safe-lights.—The term safe-light is applied either to coloured screens or to lamps containing coloured screens for use in illuminating the dark room. When dealing with ultra-rapid and panchromatic plates particular care must be taken to ensure that the safe-light is trustworthy. For panchromatic plates a safe-light which will transmit only a narrow green band of the spectrum is used, for ordinary plates a red screen

is satisfactory and for bromide and gaslight papers an orange filter is generally employed. *See also* Light-filters.

Photography.—Photography is the art of obtaining the representation of objects by the agency of light upon sensitive substances.

Photography, Colour.—The processes of chief interest to chemists from a business point of view are the Autochrome, Agfa, Duplex and Carbro, though there is about to be placed on the market a method of making prints in natural colours, the working of which is claimed to be within the capabilities of anyone who can "press the button" of the lowest-priced camera. Some details of the process were given in the *C. & D.*, 1928, 1, 622.

Photography, Desensitisers used in.—By the use of desensitisers, plates and films may be developed under the same conditions as gaslight paper. Quite a number of chemicals can be employed for this purpose, though several which have been tried cause fogging at the same time, a trouble which sometimes may be overcome by adding another dye, e.g., rhoduline violet with acridine yellow or methylene blue with acridine yellow. Among other chemicals which have been used are aurantia, basic scarlet red N, phenosafranine and pinakryptol. The last two are the most popular, but phenosafranine is the less satisfactory owing to staining. In using desensitisers one of two methods is employed: either the plate (or film) is placed in a solution of the desensitiser for a minute or so in total darkness (except for panchromatics a ruby light can be used if preferred), after which the plate is developed in the ordinary way, the illumination being candle light or shaded gas or electric light; the other method is to add the desensitiser to the developer, develop for one minute in the dark or with a ruby light and afterwards changing to a feeble white light.

Photography, Flash-light.—*See* Flash-light and Flash-light powder, danger.

Photography, Lenses for.—The main types of lenses met with in the ordinary course of business are the single achromatic, rapid rectilinear and anastigmat, and occasionally supplementary lenses, telephoto lenses and portrait lenses. The characteristics to be studied in lenses, and by which they are selected for particular work, are rapidity, definition, absence of image distortion, angle of view and covering power. The single achromatic lens, such as is supplied in the lower-priced cameras, generally consists of two lenses of different refractive and dispersive power (one crown and the other flint glass) cemented together. This lens usually works at an aperture of $f/11$, or smaller. The rapid rectilinear lens, which also goes under the names rapid symmetrical, applanat and eyroscope, may be regarded as the stage between the single achromatic and the anastigmat. It consists of achromatic convex meniscus lenses of equal curvature, each having its convex side outwards. It generally works at $f/8$, and occasionally at $f/7$. The two components can be used separately, which procedure doubles the focal length, and so halves the aperture. The advantage of this lens over the one previously mentioned is its flatness of field and rapidity. Anastigmat lenses, which are of universal application, eliminate the various forms of distortion present in the lenses previously mentioned. During recent years considerable advances have been made in the design of such lenses, though those of the different makers differ considerably. For portraiture a long focus lens working at a large aperture is required in order to obtain pleasing rendering of the features and short exposures; a telephoto lens, owing to its high magnification, is used for views and other subjects which have to be photographed from a distance owing to difficulties of approaching sufficiently near for obtaining satisfactory results otherwise. Supplementary lenses are convex or concave lenses used in addition to the lens already in the camera for the purpose of altering the focal length and so altering the size of image obtained. The aperture at which the lens is used is adjusted by means of the diaphragm, for the marking of which there are two systems in common use, namely, the F and the U.S. or uniform system. The f number is obtained by

The C.&D. Commercial Compendium

dividing the focal length of the lens by the diameter of the stop being used; thus, in the case of a stop one inch in diameter used with a lens of eight inch focus, the $f/\text{no.}$ is $f/8$. The uniform system is not used to any extent in this country, but the following are the corresponding values of the two methods of marking:—

f value.	$f/4$	$f/5.6$	$f/8$	$f/11.3$	$f/16$
U.S.	1	2	3	4	5

The stops on cameras fitted with single achromatic lenses are generally marked 1, 2, 3, and in these cases the apertures are as a rule $f/11$, $f/16$, and $f/22$ respectively.

Photometer.—The simplest form of photometer is that devised by Count Rumford and known as the Rumford photometer. An opaque rod is mounted a short distance in front of a white screen, and the sources of light so placed that the two shadows of the rod are side by side and of equal intensity. Let the two sources of light be called A and B. The shadow cast by A is illuminated by B (the second source of light), and that cast by B is illuminated by A. If the shadows are of equal intensity the illumination of the screen must be the same by A as by B. Let b represent the brightness of source A (brightness is the intensity with which it illuminates a surface at unit distance from it), and let b_1 represent that of B and let d and d_1 represent their respective distances from the screen. Then

$$\frac{b}{d^2} = \frac{b_1}{d_1^2} \quad \text{or} \quad \frac{b}{b_1} = \frac{d^2}{d_1^2}$$

that is to say, the brightness is proportional to the squares of the distances measured from the lights to the screen. The Bunsen photometer is a photometer free from penumbral disturbances at the edges of the shadows, and is the grease-spot photometer devised by Bunsen, consisting of a screen of white paper having a translucent spot of grease at the centre. The screen is placed between the lights to be tested so that one side is illuminated by one light and the reverse side by the second light. The translucent spot of grease transmits light quite freely, and if the paper is lighted only on one side the illuminated side will appear bright with a dark spot at the centre, while the side away from the light will be darker, with a bright central spot. If two sides of the paper are equally illuminated the spot disappears. The intensities of the lights are proportional to their distance from the screen. The Lummer-Brodhun photometer is a development of the idea embodied in the Bunsen photometer. A description of this and other photometric instruments will be found in books on photometry.

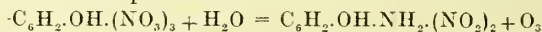
Photometry.—The measurement of the relative amounts of light given out by two sources is called photometry. When both lights are of the same colour the comparison may be made by several methods with accuracy, but if the lights differ in colour they may be resolved into their component colours and the corresponding components of each compared by means of a spectrophotometer (q.v.). In all photometric measurements care must be taken that the only light falling on the photometer screen comes directly from the lights which are being compared. The experiment must be conducted, therefore, in a room from which daylight is excluded and all light reflected from the walls or other objects kept from the photometer screen by means of black screens. Many standards of light have been proposed for commercial and scientific work, but none is altogether satisfactory. The English standard candle is a spermaceti candle made to burn 120 grains per minute, with a flame 45 mm. high. The Hefner-Altenack amyl acetate lamp is an open flame lamp burning amyl acetate. Other standards and apparatus are described in books on photometry.

Photosantonin.—Santonin is rendered yellow by exposure to actinic rays and forms what is known as yellow santonin, chromosantonin or photosantonin. This form of santonin has been recommended in some tropical

diseases, as it is reputed to be less poisonous than santonin, and has been given in doses of five grains. Air has no effect on ordinary santonin, but it becomes yellow on exposure to sunlight, and is changed into formic acid, a resinous substance and an uncrystallisable substance more soluble in alcohol and ether than santonin itself. This substance has been called by Sestini, photosantonin acid, $C_{15}H_{22}O_3$. In the extraction of santonin from worm seed, if the santonin is recrystallised from alcohol, crystallisation must be carried out in a dark place, otherwise the product is converted into the yellow compound. If the alcohol is not free from water, the ethyl ether of the new dibasic acid is formed.

Physical Chemistry.—A study of physical chemistry embraces widely different chapters of physics and chemistry, and the object briefly is to teach the chemist what he must know of physics and the physicist what he must know of chemistry. Physical chemistry used to be considered a somewhat theoretical branch of study, but it has developed in recent years in such a way as to explain many of the empirical observations of technology, and prove suggestive of many applications of physico-chemical theory to technical processes and manufacturing methods. The scientific treatment of any set of phenomena consists in applying the minimum of general principles or theories which can afford a reasonable explanation of the behaviour of matter under given conditions. A good knowledge of mathematics and the calculus is essential in many of the theoretical discussions. There are numerous instances where physico-chemical problems arise in works laboratories and the scope of physical chemistry is wide. The conceptions and methods have been extensively utilised in attacking biological and physiological problems, and a systematic study of physical chemistry as far as it has a bearing on a problem in question will illustrate its application.

Picramic Acid.—Picric acid solution is frequently used as a reagent in biological and physiological chemistry, and on reduction gives a blood-red coloration due to the formation of picramic acid:



This reaction is illustrated in the test for glucose by adding picric acid solution and caustic soda to a solution of glucose, when a blood-red colour is developed on warming.

Piezometer.—An instrument used by Cæsted to measure the bulk elasticity (i.e., permanent resistance to change in volume) of liquids. The first demonstration that liquids were compressible was by Canton in 1761, and the first measurements of any degree of accuracy were made by Cæsted in 1822.

Pilewort.—This little plant, resembling an ordinary buttercup in the flower, is one of the earliest to open in spring, growing in damp places in woods and hedges by the side of rills. It is commonly known as the lesser celandine. Its botanical name, *Ranunculus Ficaria*, is apparently derived from the curious small tuberous oblong or clubshaped roots about the size of a grain of wheat. The stalked leaves are reniform or broadly ovate and glabrous. The flowers have three sepals, eight to twelve bright yellow glossy petals with a nectary covered with a scale at the base of each. It is an old remedy for piles which was reintroduced by the late Sir J. Sawyer, of Birmingham. By herbalists it is regarded as almost a specific; an infusion of an ounce of the plant in a pint of boiling water is taken in wineglassful doses, and this is said to be sufficient to cure in most cases. It is also used as an ointment applied externally night and morning, and as a suppository, formulæ for both of which are given in the B.P.C., pp. 466 and 1502. The properties are due apparently to anemonin, but a careful examination of its chemical constituents appears not to have been made. See Martindale's "Extra Pharmacopœia" (vol. 1, p. 353).

THERMOGENE

MEDICATED WADDING



will occupy the
Daily Mail

**FULL
FRONT
PAGE
ON
OCT.
27th**

**Order
ample
supplies
in time!**

A strong, sales compelling announcement occupying the full front page of the "Daily Mail," together with prominent advertisements in all the leading National and Provincial newspapers, will create a bigger demand for THERMOGENE than ever before. Quick turnover and liberal profits have always been associated with THERMOGENE which sells far more readily and surely than most lines you offer.

It yields 32½% Profit on Selling Price when bought on best Window Display terms.

"STERLING BRAND" BISMUTH CARBONATE

"Sterling Brand" Bismuth Carbonate is the result of over eighty years' research and manufacturing experience. Beautifully light and white, and of a very high degree of purity, it worthily upholds the reputation of

THOMAS TYRER & Co. LTD. for BISMUTH SALTS

IMPORTANT

We are now able to offer "Sterling Brand" Bismuth Carbonate and other Bismuth Salts at very considerably reduced prices, BUT THE QUALITY REMAINS THE SAME

THOMAS TYRER & Co. LTD. STRATFORD, LONDON, E.15

OUR SALES OF *"Samaritan"* *Olive Oil*

are going up every week. Why?
Because quality tells every time.

OBTAINABLE ONLY FROM

THORNTON & ROSS, LTD. MILNSBRIDGE, HUDDERSFIELD

GLYCERINE

The chemically pure glycerine supplied by us is guaranteed to comply with all the requirements of the Food and Drugs Act and the British Pharmacopoeia.

PRECIPITATED CHALK.	Finest and lightest, also heavy grades.
COD LIVER OIL. (Finest Lofoten.)	
CASTOR OIL.	OLIVE OIL.
DECOLORISING CARBON.	
PERSULPHATES: Ammonium, Potassium & Sodium.	

HALLER & PHILLIPS, LTD. (Established as GEO. HALLER & CO., in 1878)
Mildmay Chambers, 69 Bishopsgate, London, E.C.2.
Phones: London Wall 4456/7. Tel. Add.: "Haloïd, Stock, London."

**ACID
SALICYLIC**

Warrington Chemical & Drug Co., Ltd.
Paddington, nr. Warrington.
Telegrams: "Salicin, Warrington."
PARA AMIDO PHENOL

**SODA
SALICYLATE**

BURKETT, SHARP & CO., LTD.

DRUGS 8 HARP LANE *CHEMICALS*
LONDON, E.C.3

JOHNSONS

CAN QUOTE YOU FAVOURABLY AND CAN GIVE
PROMPT DELIVERIES for PACKED or BULK SUPPLIES

LIN. CAMPH. LIQ. PARAFFIN
COD LIVER OIL CHEMICAL FOOD
EMULSIONS EXTRACTS INFUSIONS
OINTMENTS SYRUPS TINCTURES

LYSOL

PRICE LIST ON APPLICATION

JOHNSON & SONS
Manufacturing Chemists, Ltd.

HENDON, LONDON, N.W.4



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is
warranted to contain upwards of

99.9 PER CENT.

of pure oxide; in fact, the
impurities are not traceable.

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C.3

MANUFACTURERS OF WHITE LEAD, WHITE
ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen Street, Melbourne.

*Sold by the following Wholesale Druggists
in Boxes of 7 lb. and 14 lb. stamped by
the Manufacturers; also in 1-lb. Boxes
and 1-1/2 lb. Glass Bottles:*

Allen & Hanburys Ltd.	Hodgkinson, Prestons & King
Ayrton, Saunders & Co. Ltd.	Horner, L.A., & Sons
Bell, Jno., & Co.	Huskisson, H. O., & Co.
Bleasdale Ltd.	Inman's Stores (of Edinburgh)
Boots Pure Drug Co. Ltd.	Lofthouse & Saltmer Ltd.
British Drug Houses Ltd.	Mackay, Jno., & Co. Ltd.
Burgoyne, Burdidge & Co.	May, Roberts & Co. Ltd.
Butler & Crispe Ltd.	Oldfield, Pattinson & Co.
Clay, Dod & Co.	Pinkerton, Gibson & Co.
Cockburn & Co. Ltd.	Potter & Clarke Ltd.
Corbyn, Stacey & Co. Ltd.	Raines, Clark & Co.
Dakin Brothers	Raines & Co.
Duncan, Flockhart & Co.	Rankin & Borland
Evans, Gadd & Co. Ltd.	Silversides, R. B. G.
Evans Sons Lescher & Webb Ltd.	Smith, T. & H. Ltd.
Ferris & Co.	Southall Bros. & Barclay Ltd.
Gale & Co.	Sumner, R., & Co.
Glasgow New Apothecaries Co.	Thompson, John, Ltd.
Goodall, Backhouse & Co.	Wilkinson & Simpson Ltd.
C.R. Harker, Stagg & Morgan Ltd.	Willows, Francis, Butler & Thompson Ltd.
Harkness, Beaumont & Co. Ltd.	Woolley, Jas., Sons, & Co. Ltd.
Hatrick, W. R., & Co.	Wright, Layman & Umney Ltd.
Hirst, Brooke & Hirst	Wyleys (Lim.)
Barry, E. J., New York	Muth Brothers & Co., Balti- more
Finlay Dicks & Co., New Orleans	S. B. Penick & Co., Inc. New York
E. Fongera & Co., 90/92 Beekman Street, New York	Roller & Shoemaker, Phila- delphia
Chas. L. Huisking, Inc., 5 Platt Street, New York	Schiffellin & Co., Inc., New York
Lehn & Fink, Inc., N. York	Shoemaker & Busch, Phila- delphia
McKeesson & Robbins, Inc. New York	

JAPANESE

QUININE

SALTS

B.P. 1914

Manufactured by
HOSHI PHARMACEUTICAL CO., Ltd., TOKYO, JAPAN.

STOCKS IN LONDON

SOLE DISTRIBUTORS:
RALPH L. FULLER & CO., LIMITED,

Phone: Royal 1677-1678 21 Harp Lane, London, E.C.3. Wires: "Ralfuller, London."

LEVER'S

GLYCERINE

Best for all pharmaceutical and industrial purposes

Our chemically pure glycerine is guaranteed to comply with all the requirements of the Food and Drugs Act and the British Pharmacopoeia.

LEVER BROTHERS LIMITED

Glycerine Dept., 46, Chancery Lane, London, W.C.2

LG 9-200A

SAPIAM

Società Anonima
Per La Produzione Ed Il Commercio
Delle Pianta Industriali
Aromatiche e Medicinali,
Florence (Italy).

**ITALIAN CRUDE DRUGS
MEDICINAL & AROMATIC PLANTS
ETC.**

Aconite, Arnica, Belladonna, Camomile, Corn Silk, Dandelion, Digitalis, Henbane, Juniper, Malefern, Marshmallow, Orris, Psyllium, Stramonium, Teasel, Uva Ursi, Etc., Etc.

SOLE AGENT: Enquiries Solicited.
PHILIP WHIPMAN, 8 Cross Lane, LONDON, E.C.3
Telephone: ROYAL 6166.

· APOLLO · PURE LIQUORICE JUICE

Soluble : Smooth : Free from Grit : Well shaped stick : Rich in Glycyrrhizin.

Packed in 4lb. Cartons, Cases about 1 cwt. No charge for Bay Leaves.



MACANDREWS & FORBES, LTD., BUSH HOUSE, LONDON, W.C.2
ALDWYCH,

Telegrams: "Macforbes, Estrand, London." ESTABLISHED 1857. Telephone: City 0848

ALKALOIDS

Fine Chemicals Opium Derivatives

ALOID	DIAMORPHINE	LEPTANDRIN
ATROPINE	EMP. CANTH. LIQ.	MORPHINE
BISMUTH SALTS	ERGOTIN	OPIUM
CAFFEINE	ESERINE	PODOPHYLLIN RESIN
CANTHARIDIN	ETHYLMORPHINE	SALICIN
CAPSICIN	GINGERIN	SANTONIN
CHLOROFORM	HYOSCYAMINE	SCAMMONY RESIN
CHRYSAROBIN	IRIDIN	STRYCHNINE
CODEINE	JALAP RESIN	VERATRINE

Goods covered by Dangerous Drugs Acts offered subject to all regulations.

T. & H. SMITH L^{TD}

BLANDFIELD WORKS: 25 CHRISTOPHER STREET: 32 & 34 VIRGINIA STREET
EDINBURGH. : LONDON, E.C.2. : GLASGOW.

ESTABLISHED 1827

HYP0

PLEASE SEND YOUR

INQUIRIES & ORDERS

TO THE

MANUFACTURERS

JOHN RILEY & SONS

C.D. DEPT., LTD.

CHEMICAL MANUFACTURERS,

Post Office, Box 62 ACCRINGTON.

Enquire from

HORNER

before buying

Whole & Powdered

**HERBS, BARKS, ROOTS,
ESSENTIAL OILS,
GUMS, SEEDS**

Write for List of 1 lb. quantities and upwards

L. A. Horner & Sons

12 SOUTH TENTER STREET
LONDON, E.1

BARONE AMARELLI

Guaranteed Pure

**CALABRIAN LIQUORICE
JUICE**in 1 oz., 2 oz., 4 oz. Sticks, or
5 lbs., 10 lbs., etc., blocks.

STOCKS IN LONDON.

*Sole Agents for Great Britain and Ireland—***WHEELER & HUISKING, Ltd.**

26 GREAT TOWER STREET,

Telephone : ROYAL (2777
2778
2652)

LONDON, E.C.3

QUITE APARTfrom the fact that we stock
the largest assortment of**FOREIGN PROPRIETARIES**

we stock all the

**ENGLISH PATENTS
and PROPRIETARIES**

and

OUR SERVICE IS GOOD*Price List on application.***BROOKS & WarBURTON**40-42 Lexington Street, LTD.
LONDON, W.1.**SOUTH AFRICA**

IS COVERED BY

LENNON LIMITED

(Branches in all important Towns)

**WHOLESALE AND RETAIL
CHEMISTS AND DRUGGISTS**Druggists' Sundriesmen.
Dealers in Surgical Instru-
ments, Dental, Optical,
and Photographic Goods,
Perfumery, and Assay and
Mining Requisites. Con-
tractors to Hospitals and
Public Institutions.**AGENCIES UNDERTAKEN***London Office :*

12-14 LAFONE ST., LONDON, S.E.1

**Ephedra Vulgaris
Tamarinds, E.I.****Kamala Powder (6/8% ash)****Costus root****Podophyllum root****and other Indian Botanicals****S. N. De, M.Sc. (Botany)****Post Box 7851, Calcutta.**Cables : "Podophyllum," Calcutta.
Codes : A B C, 6th Edition and Bentley's.**DUTCH
Sugar
of Milk.
"THE BEST"****HOLLANDSCHE
MELKSUIKERFABRIEK
Amsterdam**



Salicylates

PUREST AND BEST

Sodium Salicylate, powder, flakes and crystal, B.P.

Physiologically Pure.

Salicylates of

Ammonium, Calcium,

Iron, Lithium, Lead,

Magnesium, Potassium, Zinc.

CHEMISCHE FABRIK VON HEYDEN, A. G. Radebeul-Dresden (Saxony)

Trade



Mark.

Sole Agent for the U.K.:

H. W. BRAUN, 16 Water Lane, Great Tower Street, LONDON, E.C.3.

Telephone: Royal 7076.

Telegrams: "Ilchembrau, Bilgate, London."

2

EPSOM SALTS

Commercial (for all purposes)

Pharmaceutical

Kaliwerk Krügershall

Aktiengesellschaft,

Bhf. Teutschenthal,

near Halle/S.

QUININE

QUINIDINE
CINCHONINE
CINCHONIDINE

and

SALTS

Sugar-coated Quinine Tablets and Pills.

Gelatine-coated Oval Pills.

**BANDOENG
JAVA**

BANDOENG QUININE FACTORIES

**AMSTERDAM
De Wittenkade 48-50.**

Telegrams: "Kininefabriek Bandoeng."

Samples, prices and particulars on application.

Telegrams: "Semadmy Amsterdam."

Telephone : New Cross 0750.

Telegrams : "Triassic, Kent, London."

J. M. SMITH & Co. (London) Ltd.

Established 1860.

Over 60 years' reputation as Manufacturers of Dependable Lines.

Sanitary Fluids.
White D. A. Fluids.
Carbolic Acid.
Pinogen.
Lysol.
Disinfecting Powders.
Naphthaline.
Benzine.
Ammonia.
Embrocations, Etc., etc.

Dental Creams.
Tooth Powders.
Zymate Tooth Paste.
Toilet Powders.
Hydrogen Peroxide.
Camphorated Oil, B.P.
Eucalyptus Oil, B.P.
Olive Oil, B.P.
Liquid Paraffin, B.P.
Hair Toilet Lines, Etc., etc.

EXPORT TRADE—Note Brands: "Triumph" and "J.M.S."

28 Arthur Street, Old Kent Road, LONDON, S.E.15.

J. M. S.Established
1833

New Telephone No.:
Bermondsey 1301
(3 lines)
Telegrams:
"Ipecac, London."

BAISS BROTHERS & Co. Ltd.

GRANGE WORKS, LONDON, S.E.1

Wholesale and Export Druggists, Manufacturing
Chemists and Druggists' Sundriesmen.**EMULSION SPECIALISTS**Send to us for Samples and Quotations
for your Season's requirements.**"THERMOLIN" (Baiss)**An invaluable Liniment for Rheumatism, Neuritis, etc.
A veritable Pain Killer.**SYR. FERRI PHOSPH. CO. (Baiss)**Absolutely dependable. Guaranteed not to deposit.
Special quotations and sample upon application either for
Bulk or Packed.**The "GRANGE" Spatula**The last word in Hygienic Palette Knives. Let us send you
particulars.**DR. BENGUE'S BALSAM****FREE BONUS OFFER**

to introduce the new 1/3 size.

We offer you a BONUS of one tube
for every dozen ordered, and your
order may be assorted in the 3 sizes
if so desired.

The Prices are—

1/3 size	-	-	12/- doz.
2/- size	-	-	18/- doz.
3/- size	-	-	27/- doz.

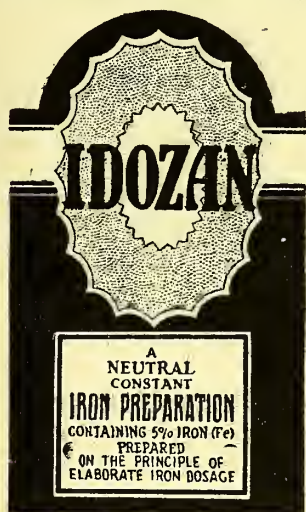
Your usual wholesaler will give you
BONUS TERMS.**SEND YOUR ORDER NOW****BENGUE & CO., LTD.**

Manufacturing Chemists

24 FITZROY ST., LONDON, W.1

A profitable line

and
some others



IDOZAN

Retail 3/- and 5/- per bottle



LYSOL—DEGA BRAND

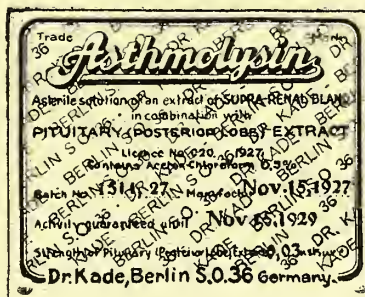
Bottles	Retail	Chemist
4 oz. ..	10d.	6/- per doz.
8 oz. ..	1/6	10/- "
16 oz. ..	2/6	17/- "
32 oz. ..	4/-	30/- "

YOUR PROFIT

is from **37%** to **44%** on Turnover,
and from **60%** to **80%** on Cost.

**YOUR PROFIT 25%
ON TURNOVER**

Intensive Medical Propaganda on



is now again proceeding.

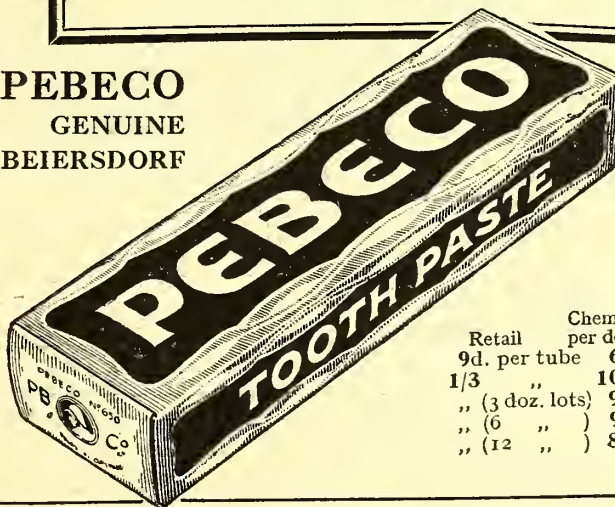
Asthmolysin is a compound
of Suprarenal and Pituitary ex-
tract which exerts a profound
effect on Bronchial Asthma.

Keep one or two boxes in stock and avoid
delay in filling prescriptions.

**ORDER FROM YOUR WHOLESALER.
HE CAN SUPPLY PROMPTLY.**

ASTHMOLYSIN RETAILS AT
10/- per box (10 ampoules)

**PEBECO
GENUINE
BEIERSDORF**



Retail	Chemist
9d. per tube	6/-
1/3 "	10/-
" (3 doz. lots)	9/6
" (6 ")	9/-
" (12 ")	8/6

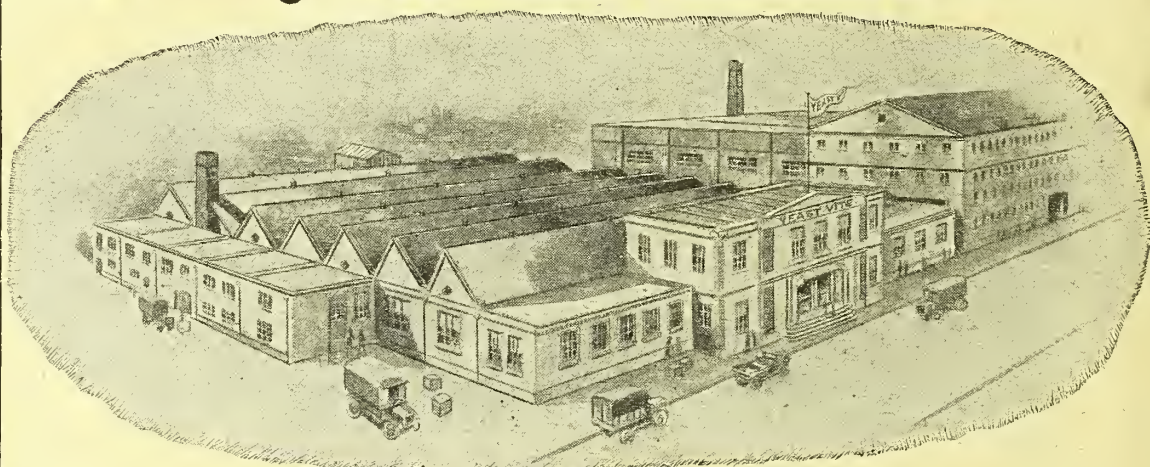
CHAS. ZIMMERMANN & CO. (Chem.) Ltd.

Telephone :
ROYAL 1866

9-10 ST. MARY-AT-HILL, LONDON, E.C.3

Expansion!

THE NEW YEAST-VITE LABORATORIES AT WATFORD.



THE striking success of Irving's YEAST-VITE Tablets and the consequent ever-growing demand has necessitated our removal to larger premises at Watford, where we shall be able to manufacture on a much larger scale. The above view of our New Freehold Factory, Laboratories, and Offices (when completed) will show how great is the extent of our expansion. Modern Machinery has been installed and production is being undertaken on the vast scale necessary to cope with the increasingly greater demand. Our expansion will have its repercussion on *your* business in the shape of *Sales* and yet *More Sales*!

A NEW AND INTENSIVE NATIONAL ADVERTISING CAMPAIGN NOW IN PROGRESS

Take full advantage of our new huge Advertising Campaign now in progress by sending for an Illustrated Pamphlet of the latest Show Material which will be sent **FREE** and **CARRIAGE PAID**. A Window Display will prove YEAST-VITE as still

THE MOST PROFITABLE AND BEST SELLING LINE IN THE TRADE

All communications to be addressed to our New Laboratories, as follows :

IRVING'S YEAST-VITE LIMITED

Whippendell Road, WATFORD, HERTS.

Telephone :
Watford 1475 and 806 (5 lines).

Telegrams :
Yeast-Vite, Watford, Herts.

Now is the time

for all good Chemists to come to the aid of their
Customers

by stocking, featuring, and selling

MONSOL

BRAND

THROAT PASTILLES

retailed at

1/6 & 2/9 per box.

THE
MONSOL
GROUP

Throat
Pastilles
1/6 & 2/9
box
Ointment
2/- pot
Liquid
2/- bottle
Internal
Capsules
5/- bottle
etc.

is the best advertised line of pharmaceutical products
during the present Season.

Regular announcements appear in:

<i>The Times</i>	<i>Leeds Yorkshire Evening News</i>
<i>Daily Mail</i>	<i>Liverpool Echo</i>
<i>Daily Express</i>	<i>Newcastle Evening Chronicle</i>
<i>Daily Mirror</i>	<i>Edinburgh Evening News</i>
<i>Daily Sketch</i>	<i>Manchester Daily Dispatch</i>
<i>Daily Chronicle</i>	<i>Manchester Evening Chronicle</i>
<i>Daily News</i>	<i>Birmingham Mail</i>
<i>Evening Standard</i>	<i>Nursing Mirror</i>
<i>Evening News</i>	<i>Nursing Times</i>
<i>Sunday Express</i>	<i>Scottish Nurse</i>
<i>Sunday Dispatch</i>	

The Monsol Lines are all-the-year-round lines

MANUFACTURED BY
THE MOND STAFFORDSHIRE REFINING CO. LTD.

Write for Window Display material to

U.K. Distributors: Thos. Christy & Company
4-12 Old Swan Lane, Upper Thames Street, London, E.C.4

NULOMOLINE

THE HONEY OF SUGAR

NULOMOLINE

PHARMACEUTICAL

A high-density syrup made from Cane Sugar - - -
 A well-balanced preparation of Invert Sugar and Sucrose - - -
 Non-Crystallizable - - - - - Non-Fermentable
 The ideal base for all syrups where sugar and glycerine are used

Manufacturers: The Nulomoline Co. of New York
 SOLE DISTRIBUTORS FOR THE UNITED KINGDOM:
FREDK. BOEHM LTD.
 17 Jewry Street - LONDON, E.C.3
 Scottish Office: 140 WEST GEORGE STREET, GLASGOW

HONEY

Choice English Honey. $\frac{1}{2}$ lb. Glass Jars, 11/- doz., 1 lb. 20/- doz.
 Finest Californian
 White Clover } " " 7/6 " " 12/6 "

Ditto in patent containers. 2 oz. 2/8, 4 oz. 4/3, 8 oz. 6/9, 16 oz. 11/-
 Natural Liquid Honey, Tupelo, not clarified, natural non-setting Nectar, in
 Glass Jars, $\frac{1}{2}$ lb. 8/6, 1 lb. 14/- doz.

Also French, New Zealand
 and Canadian Honey

C. W. HARPER, 254 Stockport Road, Manchester.

ACCURATE POISON BOTTLES

Brilliant Amber Glass, English Machine Made, Hexagonal.
GUARANTEED FULL CAPACITY.

These bottles are much stronger than hand-made and
 reduce breakages to a minimum.

2 oz. 14/6, 3 oz. 16/6, 4 oz. 18/6, 6 oz. 22/-, 8 oz. 23/- gross.

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
 FINEST REMEDY FOR CATARRH & COLD
 IN THE HEAD.

Richard Dickeson & Co.

(Incorporated with Reynolds, Sons & Co., Ltd.)
 57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

**Liberal
 Trade Terms
 Powerful
 Advertising**

Cephos

THE
 PHYSICIAN'S REMEDY
 for

HEADACHE, NEURALGIA, RHEUMATISM, NEURITIS, Etc.

Is now being vigorously advertised throughout the country.

POWDER AND TABLETS. RETAIL AT 1/3 and 3/-

:: Sole Proprietors ::

CEPHOS LTD.

BLACKBURN

GALLOWAY'S COUGH SYRUP

*SHOWS OVER 50% PROFIT
WHEN BOUGHT ON BEST TERMS*

A £5 ORDER

ENTITLES YOU TO

10% DISCOUNT & 2½% FOR PROMPT CASH

WITH A BONUS OF

**½ DOZ. 1/3 SIZE OR ¼ DOZ. 2/6 SIZE
FOR 14 DAYS WINDOW DISPLAY.**

1/3 SIZE 12/- PER DOZ.

2/6 „ 24/- „ „

CARRIAGE AND PACKING FREE IN UNITED KINGDOM

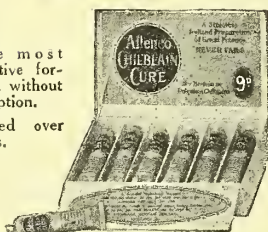
**LOOK TO YOUR STOCKS AND
SEND YOUR ORDER NOW**

**P. H. GALLOWAY, LTD.
LONDON, S.E.17**

**3 GOOD
WINTER
SELLERS**

The most effective formula without exception.

Proved over years.



An attractive ART CATALOGUE is yours for the asking. All Pharmacists should send a request NOW. Contains a collection of "PACKS" and Show that make your windows alive and pay the rent. Profits on a liberal scale not beaten by any House. Write for particulars and prices to—

R. H. ALLEN & CO., Manufacturing Chemists,
SYDENHAM, LONDON, S.E.26.



"Allenco" Snuff. A proved Rapid Seller with quick repeats.

"Oilex" Chest Soother. An established favourite Inhalant Ointment. Never remains on the shelf.

"Allenco" Chilblain Cure. An old favourite. There is no better.

**PHYLLOSAN**

is endorsed by
Medical Opinion
is well advertised
and yields you
an excellent
profit

TRADE TERMS:

For 1 doz. lots.	For 3 doz. lots (either size or assorted).
3/- size - 27/- doz.	3/- size - 25/6 doz.
5/- size - 45/- doz.	5/- size - 42/9 doz.
Carriage Paid on original cases only, 1 doz. or 3 doz. either size. Monthly account.	

Order from your usual Wholesaler
or direct from Sole Distributors:

FASSETT & JOHNSON, LTD.
86 CLERKENWELL ROAD, LONDON, E.C.1

"Multum in Parvo."

"VAPOFORM" Disinfectant

Regd.

For disinfection of
Rooms
Confined Spaces, &c.

for HOME
and HOSPITAL

Has no injurious effects
whatever on Furniture,
Utensils, &c.

Small size, capable of disinfecting
1000 to 2000 cubic ft., 8/6 per doz.
Large size, capable of disinfecting
3000 to 6000 cubic ft. 13/- per doz.

Sole Proprietors—

HARKNESS, BEAUMONT & CO., LTD.
Wholesale Chemists, EDINBURGH.

ROBB'S

HERBALINE OINTMENT**Gratis samples for the Public**

We are advising the Public to apply to you
for free samples.

Send for a supply at once.

In addition we authorise you to promise to
actual purchasers "Money back if not satis-
fied." Details of this on request.

RETAIL 1/3, 3/-, 5/- 10/-

PHILLIPS & ROBSON, LTD.
81 TURNMILL STREET, CLERKENWELL, E.C.1

MUNYON'S
HOMEOPATHIC
HOME
REMEDIES

Send your enquiries
to

ACCO

85 FARRINGTON ST.,
LONDON, E.C.4

50%

MINIMUM PROFIT

and increase of general business!

Sole Agency offered to one progressive Retail-
Chemist in each district for "FITE-A-CERM,"
(2/6 each advertised).

Home-Vaporiser in all-aluminium. 8 vapour
prescriptions (to make up), free.

Samples for 1/- P.O. and full particulars from manuf.
Victor H. Iddon Ltd., 27 Blackfriars St., Manchester.

**HENRY'S CALCINED MAGNESIA**

Continues to be prepared with scrupulous care in the greatest chemical purity by

Messrs. **THOMAS & WILLIAM HENRY**, 11, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name.

New York: Messrs. SCHIEFFELIN & CO., William Street.

PRICE 2s 9d

Trade Mark, "Henry's Calcined Magnesia"

Paris: Messrs. ROBERTS & CO. 5, Rue de la Paix.



THEY want them Now!

The first frosts have arrived. The cold and wet dreary days of winter are setting in. Let that ill wind which is blowing down the street blow some good profit-making business into your shop or store.

Feature "GRIPS," the world's premier medicated pastille, in windows and on counters. The famous Blue and gold containers are a magnet to all who bark and shiver.

Order a supply through the usual trade channels. Liberal trade terms and forceful advertising make "GRIPS" First-Aid Pastilles well worth featuring.

Distributing Agents to Wholesale and Retail Chemists Trades:

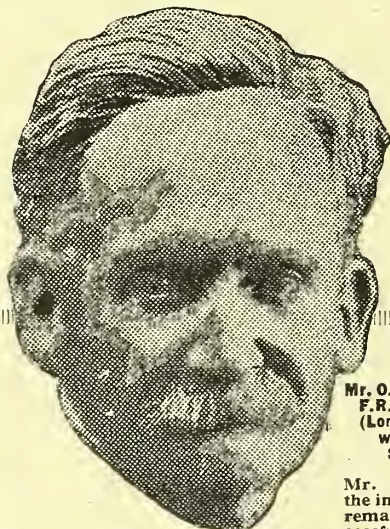
THOS. CHRISTY & CO.,
4-12, OLD SWAN LANE, LONDON, E.C.4.

'GRIPS'

FIRST
AID PASTILLES



Handsome Profit from a Single Easy Sale



Mr. O. OVERBECK,
F.R.S.A., F.P.C.
(Lond.), etc., the
well-known
Scientist.

Mr. Overbeck is
the inventor of the
remarkably suc-
cessful electro-

therapeutic instrument known as Overbeck's Rejuvenator,
and the author of "A New Electronic Theory of Life,"
the remarkable treatise on electrical treatment.

In an interview with representatives of the press, Mr.
Overbeck claimed that his machine had banished his own
old-age infirmities and practically renewed his youth.

CHEMISTS of to-day, harassed by the ever-increasing multitude of competing low-priced articles yielding only microscopic profits on the individual sale, have good reason to be delighted with the results of handling such an easy-selling big profit bringer as the scientific electro-therapeutic instrument known as Overbeck's Rejuvenator, which is being prominently advertised in the National Newspapers, the Weekly and Religious Press, and the Magazines, and is offered on generous terms to Chemists and Druggists.

This skilfully designed instrument for the electrical treatment of Constitutional Disorders is literally selling "like hot cakes." During the past year approximately 10,000 have been sold, and month by month the demand steadily increases.

The most conscientious chemist can recommend Overbeck's Rejuvenator with confidence, since there is abundant evidence to show that it is of real and marked value for the treatment of a wide variety of disorders such as Rheumatic and Gouty Affections, Nervous Disorders, Deafness, Weak Sight, Goitre, Heart Affections, Baldness, Insomnia, Indigestion, Loss of Vigour, etc., etc.

OVERSEAS AGENTS—

Union of South Africa, Rhodesia and S.W. Africa: Messrs. J. McNamara & Co., Ltd., 21, King George Street, Johannesburg, South Africa.
Norway, Sweden and Denmark: Rejuvenator-Agenturet, Sarpsborg, Norway.

Canada and United States of America: Overbeck Sales Agency, 23, Scott Street, Toronto, Canada.

Switzerland: Mr. Garcia Palacios, 2, Rue Henri, Mussyard, Geneva, Switzerland.

France: Societe Internationale Verimex, 76-78, Avenue des Champs Elysees (Arcade des Champs Elysees), Paris, 8E, France.

Dominion of New Zealand: Abel, Smeaton, Ltd., Customs Street, B., Auckland, N.Z.

South and Central America and Br. West Indies: Frederick N. Martinez, General Offices and Sample Rooms, Barbados, West Indies, and also at Kingston, Jamaica.

Sole Agents Required Abroad Where Not Already Represented.

OVERBECK'S REJUVENATOR

is being prominently
advertised in the

"Daily Express"

"Daily Chronicle"

"Daily News"

"Daily Sketch"

Etc., Etc.

Also the National
Magazines, Weekly Press,
Religious Press, Etc.

WHAT THE PRESS SAYS:

The Press of every civilised land has drawn attention to Mr. Overbeck's remarkable invention for prolonging life and banishing disease.

The following extracts are from British journals:—

"Health and Efficiency" (the leading health magazine) says:—"The Overbeck Rejuvenator is well so called because the extraordinary difference in his own and other people's appearances, palpable to everybody, has been so marked after using the process."

The "Sunday Pictorial" says:—"Doctors in Australia, India, Germany, France, Austria, Poland, Rumania, and America are experimenting with the machine and reporting, it is stated, remarkable cases of rejuvenation and relief of suffering."

The "Daily News," describing a demonstration of the Rejuvenator given by Mr. Overbeck at the Savoy Hotel, London, says:—"Mr. W. J. Womersley, M.P. for Grimsby, who presided, said that he had known Mr. Overbeck for many years, and during the last two or three years his health and appearance had improved wonderfully."

TRIBUTES FROM MEDICAL MEN:

It is contrary to medical etiquette to give the names of doctors who are using and recommending the Rejuvenator, but the following tributes are from prominent members of the profession:—

**YOU
Can Recommend
OVERBECK'S
REJUVENATOR
with absolute confi-
dence for all ailments
which benefit by
Electrical
Treatment.**

"Mr. Overbeck's system introduces a new note into Electro-Therapeutics, his instrument producing no sensation whatever."
—M.B., Ch.B.

"This instrument, with its various fittings, is a perfectly safe means of applying medical electricity to the treatment of a variety of disorders, provided the very simple instructions are carried out."
—M. B.

December 26, 1927.
"It has been beneficial in a case of muscular atrophy of the legs after severe illness, and personally I have used it on my bald head and am certainly gradually getting a good crop of hair, for which I am very thankful and pleased."
—M.D.
M.B., C.M., F.R.C.S.

Illustrated 88-page Booklet, Prices and Full Particulars
from:—

**O. OVERBECK, F.R.S.A., Etc.
CHANTRY HOUSE, GRIMSBY.**

'Phone: GRIMSBY 3980.

Everybody Coughs!


**ORDER
PEPS
NOW!**

C. E. Fulford, Ltd., LEEDS

“Edme”

Malt Extract
with
Cod Liver Oil

*Guaranteed pure and free
from Preservatives*



*Manufactured
from Selected
Barley Malt
and the Finest
Norwegian
Cod Liver Oil*

*Works:
Mistley, Essex.*

Write for quotation and sample

Edme Ltd

**122, Regent St,
London, W.1.**

Telephone: Regent, 6719. Telegrams: “Edme, Piccy, London”

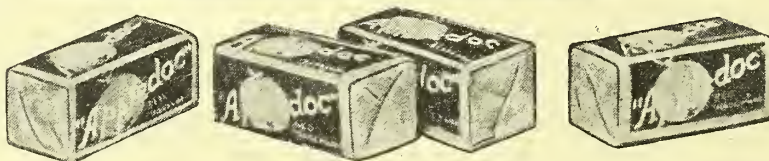
“An Appledoc a day keeps illness at bay”



The public responds readily to a window display centred around this effective slogan.

We are launching a further NATIONAL ADVERTISING CAMPAIGN and advertisements will appear in all the leading DAILY PAPERS.

*Mild, Pleasant to taste,
Effective, Harmless.
Ideal for Children.
Convenient for travelling.*



SOLD UNDER P.A.T.A. PROTECTION
1/3 per tin of 12 pastilles. 11/3 per dozen.

**THE NATIONAL
CHEMICAL HOLDINGS
LIMITED**

Appleby House
46 St. James's Place
LONDON, S.W.1

A NEW AND UNIQUE PRESENTATION OF GLYCEROPHOSPHATES

NEURO PHOSPHATES

(ESKAY BRAND)



Early this year, as announced in previous issues, we introduced Neuro Phosphates (Eskay Brand) to doctors in selected areas, to whom we sent liberal samples.

Encouraged by the most gratifying response to our original propaganda, we are now widening the field by persistently addressing three times as many medical practitioners, the vast majority of whom will, without question, be prescribing Neuro Phosphates from this time onwards.

YOUR WHOLESALE CARRIES STOCKS

Neuro Phosphates (Eskay Brand) is a P.A.T.A. line and is issued in one size only at 4/6 per 8-oz. bottle.

MENLEY & JAMES, LTD., HATTON GARDEN, LONDON, E.C.1

TO Proprietary Medicine Owners

Our factory is equipped with the most modern plant for tablet and other special formula work, and is capable of exceedingly large output. We manufacture from formulæ or customers' own

material, and pack ready for sale, if desired.

We offer expert advice, efficient service, and absolute fidelity to formula, with strict secrecy. Enquiries from Principals invited.

MAY WE QUOTE YOU ?

MENLEY & JAMES, LTD., P.O. Box 12A, Hatton Garden,
LONDON.



"John Bull" VITAMIN MALT

A Malt Extract of High
and Permanent Vitamin
Potency, equal to Malt
with 20% Cod Liver Oil.

EVERY BATCH IS TESTED CHEMI-
CALLY AND BIOLOGICALLY AND
THE A, B & D VITAMIN CONTENT
IS REGULAR AND GUARANTEED.

"John Bull" MALT EXTRACT

and Malt Extract and Cod Liver Oil

are made by a special
process which entirely

Eliminates Crystallization.

Wholesale and Export Enquiries Invited.

PAINE & CO., LTD.

"JOHN BULL" Malt Extract Works
ST. NEOTS - HUNTS

YOU CAN SELL MORE SNOWFIRE

Everybody needs Snowfire. Most people know how splendid it is for chapped hands and cracked lips and for all cold-weather conditions of the skin. Let them know that you stock this useful little tablet. Display Snowfire on your counter and sales will keep on the upward grade all the winter.

Snowfire TABLET

CARTONS AND NICKEL-PLATED CASES

*You should stock up well with these Snowfire lines
—they are splendid all-the-year-round sellers:—*

Snowfire Cream	Snowfire Face Powder
" Jelly	" Toilet Soap
" Shampoos	" Shaving Sticks

F. W. Hampshire & Co. (1927) Ltd.,
Riverside Works, Derby.

Agents: India—Messrs. Siqueira & Son, 121 Fort St., Fort,
Bombay, India. Australia—Messrs. Salmon & Spraggon
(Australia) Ltd., 218, Kent St., Sydney, N.S.W., Australia.

PHOSPHATE OF SODA, Pure

For Food Purposes

ASK FOR SAMPLE AND PRICES.

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL.

Telephones: Giffnock 414 (2 lines).

Telegram: "Perryope, Nitshill."



CACHETS "FINOT"

(White or Coloured)

With inscriptions in any desired
tint; also Plain or Embossed.

"A distinction all their own."—C. & D.
"Perfection of Cachets."—*Lancet*.

These Cachets are especially adapted for Headache, Neuralgia
and other powders.

COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes to fit the various types of Cachet Machines.

It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE has become a household word, and the public, through satisfaction which comes after trial, are demanding **IGLODINE PREPARATIONS**. Are you the retailer who is preparing to meet the demand?

Iglodine.

The Safe and Pure Antiseptic

Write to-day for full particulars to:

THE IGLODINE CO., LTD. - Newcastle-on-Tyne.

A CHEMIST'S TEST of 'ASPRO' Window Display Against Competitive Lines

RESULT: 'ASPRO' DISPLAY Sold 10 times more than competitors'

We are frequently pointing out the wonderful pulling power of 'ASPRO' Window Display on account of its linking up with continuous and ever-increasing publicity. The following test of a display given by Mr. William Danson, M.P.S., will interest all chemists who wish to increase their business. The following letter is self-explanatory.



William Danson, M.P.S.

Chemist and Druggist.

*301, Regent Road,
Salford.*

Sept. 24th, 1928

Messrs. Gollin & Co.
Gentlemen,

Recently I made a display of 'ASPRO' along with two other brands of Aspirin Tablets. It was remarkable that during the period I sold about 6 Dz. 'Aspro' but only about $\frac{1}{2}$ Dz. of the other two together.

Yours faithfully,

William Danson

LOOK! Read This

'ASPRO' has a Tremendous Power to Build up a Chemist's Business

The above test should demonstrate what a great power 'ASPRO' Publicity is to help the Chemist. It is not only on account of the actual 'ASPRO' that it usually sells, but also on its great value in bringing customers into the Chemist's shop who would not otherwise have come in. Every time you put an 'ASPRO' window display in you connect up with a £250,000 continuous advertising activity just the same as if you put your own name at the foot of the advertisements. Why not write us for a window display to-day, also take advantage of the liberal bonus terms shown below whereby you can make an extra 17% profit?



Buy 'ASPRO' on Bonus Terms and Get 17% EXTRA PROFIT

Just have a look through your purchases of 'ASPRO' and you will find that you are in a position to buy on Bonus terms. Buying on Bonus terms means extra profit averaging 17% to you. So why not place your next order through your Wholesaler on Bonus terms?



WHAT THE BONUS IS

BONUS on 10's { One Gross Order - Bonus 1 dozen packets
Half Gross Order - Bonus $\frac{1}{2}$ dozen packets
Half Gross 10's is minimum order accepted for Bonus purposes.

BONUS on 25's { One Gross Order - Bonus 2 dozen packets
Half Gross Order - Bonus 1 dozen packets
Quarter Gross Order - Bonus $\frac{1}{2}$ dozen packets
Quarter Gross is minimum quantity.

NO BONUS ON 60's.

CONDITIONS

The only conditions made are that the Chemist who buys on these terms undertakes to show Advertising matter in his shop window for 14 days and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO' but should enable the Chemist's staff to make other sales to the customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., in single lots 6 dozen 10's or 3 dozen 25's will qualify the Chemist.

HOW TO ORDER BONUS PARCELS

We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the Bonus will be supplied direct by us.

ORDINARY PRICES for { 6d. size containing 10 tablets, 4/6 dozen }
'ASPRO' are as follows: { 1/3 size containing 25 tablets, 11/6 dozen }
{ 2/6 size containing 60 tablets, 21/- dozen } NOTE.—2/6 size contains 10 extra tablets.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents—GOLLIN & CO. PTY. Ltd. ('Aspro' Dept.), SLOUGH, Bucks. Phone: Slough 608.

No proprietary right is claimed in the method of manufacture or the formula.

THE MALT THAT CANNOT CRYSTALLISE

MALT EXTRACT**MALT &
OIL***The No Trouble Malt Extract***VITAMINE MALT FOOD**

A combination of the Finest Malt Extract ever made and the A, B, C & D VITAMINES.

In 1-lb. and 2-lb. oval jars to retail at
1/9 and 3/-*Printed own Name and Address.**Write for Samples and Prices.***JEFFREYS, MILLER & Co. Ltd.**
LEYLAND MILLS, WIGAN'Phone :
WIGAN 327.Telegrams :
"MALTUM," WIGAN.**Beecham's Pills**1s. 3d. size - 11s. 9d. per dozen
3s. 0d. " - 28s. 0d. "
5s. 0d. " - 54s. 0d. "**Beecham's Powders**1s. 3d. size (8 Powders) 11s. 9d. per dozen
5s. 0d. " (40 ") 54s. 0d. "*Less 2½% Cash Discount.**A further 5% allowed for Window
or other Advertising display.***Orders—Minimum Quantity FIVE POUND**
(Assorted sizes, Pills and Powders).

PACKAGES FREE. CARRIAGE PAID.

TERMS: CASH WITH ORDER.

All communications to be addressed and cheques made payable to:
BEECHAMS PILLS LIMITED,*Sales Office :*
BEECHAM-VENO Buildings, Chester Road, MANCHESTER*The 'Yadil'
boom has
begun Are
you participating?*Don't let the man in the next
street do all the business.*We shall be happy
to help you if
you will write us.***YADIL PRODUCTS (1925) LIMITED**
Sicilian House, London, W.C.1

It is a Parke-Davis Product

The Public & Vitamins

THE popular newspapers have taught the public to recognise the importance of vitamins, though people still maintain a firm trust in old-fashioned remedies. Mothers *know* by experience the value of cod-liver oil emulsion, but they will prefer to buy the kind that is certified to contain vitamins rather than the usual one that has no such guarantee.

That is *one* excellent reason why it will pay you to make P., D. & Co. 33% Cod-Liver Oil Emulsion your leading emulsion line during the coming winter; for the label on each bottle states the vitamin activity in definite figures—there is nothing vague about the guarantee.

There are other reasons too. The palatability for instance; the careful manufacture which secures inseparability and good-keeping qualities; the purity of all ingredients; and, lastly, the satisfactory profits available, particularly when the emulsion is bought on the special terms we offer.

*Send us a postcard to-night asking
for further details of our offer*



COD-LIVER OIL EMULSION, 33% (P.D. & Co.)

PURE MALT EXTRACT

with *FINEST*

NORWEGIAN COD LIVER OIL

The Brand that does not separate nor crystallize.

Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.

THE BRITISH DIAMALT COMPANY
SAWBRIDGEWORTH - - HERTS.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTI B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

"KISSINGA" PINE NEEDLE BATHS

The original Pine Needle Baths containing extract of Pine from the famous Pine Forests of Bavaria. WELL ADVERTISED. PRESCRIBED BY THE MEDICAL PROFESSION.

2/6 per box containing 6 capsules } Subject to Wholesale Discount
4/6 " " 12 " " of 33 1/3 %

Supplies can be obtained from Wholesalers or from the Sole Agents:

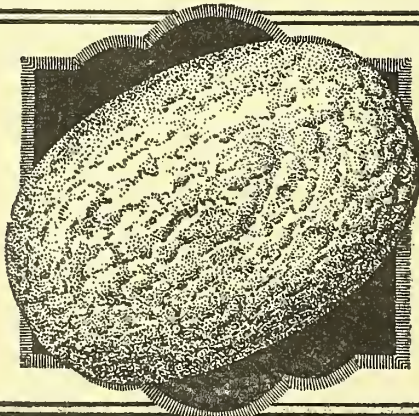
ROBERT W. PHILLIPS, Ltd., Craven House, KINGSWAY, W.C.2

"YEAST FOR VITAMIN B."

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE.

MIDGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY, LEEDS.



Two thirds
actual size

Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by
CARR'S of Carlisle

The Oldest House in the Trade

Bemax

SPECIAL BONUS SCHEME

Available from October 15th to November 19th

In a few days' time a great National Advertising Campaign will be launched on behalf of the well-known vitamin food Bemax. And during the next five weeks we are offering to all Chemists a *Special Bonus at the rate of 13 tins to the dozen ordered*, in consideration of a Window Display of not less than 14 days.

BEMAX TRADE TERMS

	P.A.T.A. Protected Face Value	per doz.	(A) 3 doz. 2/6 or equivalent per doz.	(B) 6 doz. 2/6 or equivalent per doz.	(C) 12 doz. 2/6 or equivalent per doz.
1 lb size	2/6	22/6	22/-	21/3	20/6
2 lb size	4/6	40/6	39/6	38/-	37/3
Hospital size	20/-	15/-			
Profit on Outlay		44%	47%	52%	58%
Plus Bonus 1 lb size					

For the purpose of the Bonus, one 2 lb tin is equivalent to two 1 lb tins.

Suggested Assortments or Equivalents:—

(A) (1) 2 doz. 2/6 and $\frac{1}{2}$ doz. 4/6 : (2) 1 doz. each 2/6 and 4/6 : (3) $1\frac{1}{2}$ doz. 4/6 size.

(B) (1) 4 doz. 2/6 and 1 doz. 4/6 : (2) 2 doz. each 2/6 and 4/6 : (3) 3 doz. 4/6 size.

(C) (1) 8 doz. 2/6 and 2 doz. 4/6 : (2) 4 doz. each 2/6 and 4/6 : (3) 6 doz. 4/6 size.

Original Cases : 2/6 size, 1 and 3 doz. : 4/6 size, $\frac{1}{2}$ and 1 doz.

Carriage paid on 3 doz. 2/6 or equivalent. Payment Nett Monthly A/C.

Bemax may be obtained from Messrs. Fassett & Johnson Ltd., 86, Clerkenwell Road, London, E.C.1, or from your usual wholesaler, as you prefer. The Display Sets and Bonus goods will be sent Carriage Paid only by and direct from Messrs. Fassett & Johnson.

SUPPLIED IN
ANY SIZE
TO ORDER

STOCK
KEPT IN
LONDON



SOCIÉTÉ INDUSTRIELLE DE LA CELLULOSE
SOCIÉTÉ ANONYME

SIDAC SILVERINE INSOLUBLE TRANSPARENT PAPER

SUPPLIED IN WHITE AND COLOURED, EMBOSSED OR PRINTED.

TOOTH BRUSH ENVELOPES. SPONGE BAGS,
BLOCK BOTTOM BAGS, &c.

"Like a Film of Flexible Glass it Protects and Beautifies."

SOLE AGENTS:

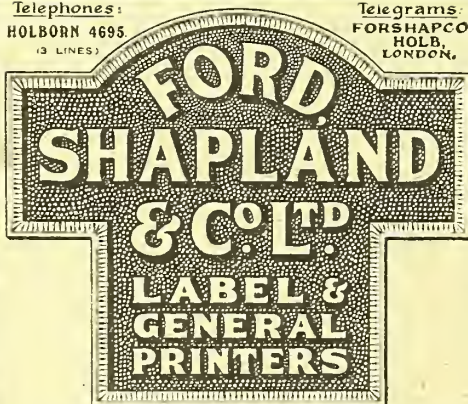
W. S. MUIR & Co. Ltd., 83 Upper Thames St., London, E.C.4

Telephone: CITY 6164, 0667.

Telegrams: "SWAMUIRSTA, PHONE, LONDON."

Telephones:
HOLBORN 4695
(3 LINES)

Telegrams:
FORSHAPCO,
HOLB,
LONDON.



FINE ART SHOWCARDS, CARTONS,
ENVELOPES FOR SHAMPOO POWDERS,
CORN SILK, ETC.

*"Sol-Vo" Sanitary Paper
in Rolls & Packets.*

AGENTS FOR THE REGISTRATION
OF TRADE MARKS.



RIDGE'S FOOD

for Infants and Invalids

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL
DISPLAY TERMS ON APPLICATION TO:

ROYAL FOOD MILLS, LONDON, N.16

"PRESTOP"

Milk COVER & Cardboard disc REMOVER

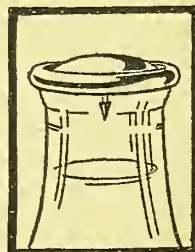


6d.

FITS ALL SIZES.

Manufacturers:
**T. WEBSTER
& CO., LTD.**

Diamine House,
Middle Lane,
Barnsey, London, N.5



*Photo Wilse*

Favourable Climatic Conditions.

By far the greater part of the cod, the liver of which is used for the production of Norwegian codliver oil is caught in the winter and early spring, when the temperature of the air is low, i. e. from about 19° to about 39° F.

This, in conjunction with the fact that the distance from the fishing grounds to the refineries is never long, ensures perfect freshness. Norwegian medicinal codliver oil is unexcelled in vitamin content, and is practically tasteless and odourless.

Antirachitic



Growth-promoting

NORWEGIAN MEDICINAL CODLIVER OIL

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street
LIVERPOOL.

523 Salisbury Hse
Finsbury Circus
LONDON.

Deansgate Arcade
MANCHESTER.

Martineau Street
BIRMINGHAM.

Wellington
Chambers
LEEDS.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.6

Telephone: Putney 1153 and 1154.

WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."

SITORA REFINING CO. LTD.

Ask for
Quotations
and Samples.

OUR SPECIALITIES:

PARAFFINUM LIQUIDUM B.P.
TECHNICAL WHITE & HALF-WHITE OILS
COLOURED BRILLANTINE OILS

27 MINCING LANE, E.C.3

Royal 2944.

PETROLEUM JELLIESWHITE, LEMON, YELLOW, AMBER,
RED, GREEN.**WHITE & COLOURED OILS**

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

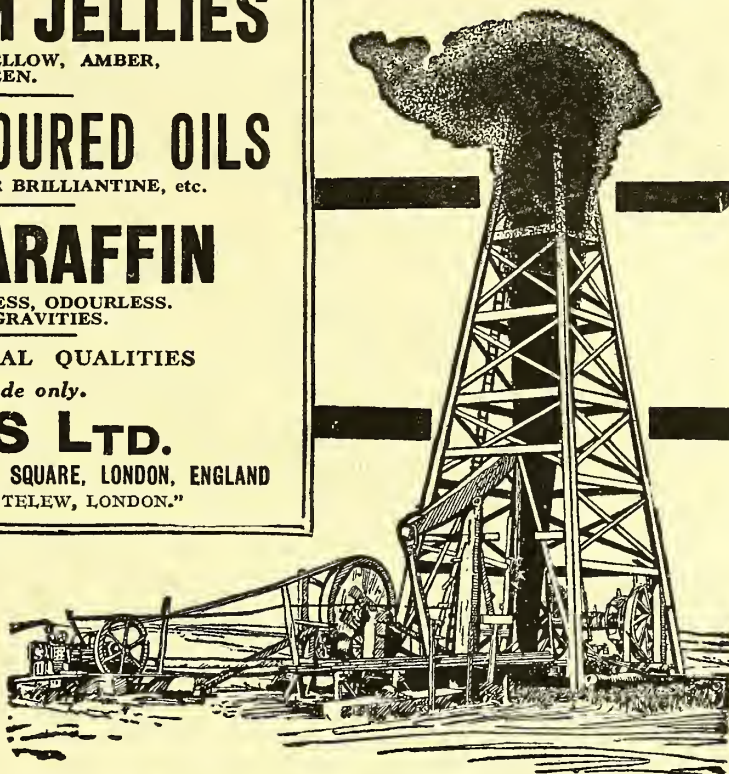
LIQUID PARAFFINCOLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.***STERNS LTD.**

ROYAL LONDON HOUSE, FINSBURY SQUARE, LONDON, ENGLAND

Telegrams: "CENTUMVIR, TELEV, LONDON."

**FRANCIS F. FOX & Co. LTD.**
BRISTOL**LINSEED OIL**
TURPENTINE
FINE OLIVE OILS
COPPER SULPHATE
CRUSHED LINSEED

&c.

PRICES ON APPLICATION.

Telegrams: "Fox, Bristol."

Telephone: Bristol 19

PETROLEUM JELLY("SALVO PETROLIA")
BRANDTHE PERFECTION OF PETROLEUM JELLY
MANUFACTURED SOLELY BY**THE DEE OIL CO. LD.****D 23 & 24 EXCHANGE BUILDINGS**
LIVERPOOLTELEPHONE -
CENTRAL 3859TELEGRAMS
"CESTRIAN"

LONDON OFFICE

11 POULTRY, CHEAPSIDE, E.C.2. PHONE: CITY 8455

PACKED IN BARRELS KECS OR
SMALLER PACKAGES IF DESIRED.OTHER GRADES OF
PETROLEUM JELLIES, WHITE BASES ETC.
WHITE OILS B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION**OLEUM DEELINE (DEE OIL)**
THE UNFAILING CURE FOR ECZEMA.

**PARAFFINUM
LIQUIDUM B.P.**All Specific Gravities Guaranteed
to remain bright at 0°C**B.P. WHITE & YELLOW
PETROLEUM JELLIES****WHITE & HALF
WHITE OILS****W.B. DICK****& CO., LTD.**26 Grosvenor Gardens
LONDON, S.W.1Telephone :
Sloane 3461 (7 lines).Telegrams :
"Dicotto, Sowest, London."And at
LIVERPOOL CARDIFF
NEWCASTLE**PETROLEUM JELLY**

Best qualities Yellow and White B.P. Red Veterinary and Green.

GOUGH, KIDSTON & CO.

43/45 Gt. Tower Street, London, E.C.3

Tel. No.: Royal 2666 & 2667.
Tel. Add.: Kidstonism, Bilgate,
London.Also GUM ARABIC and TRAGACANTH
BEESWAX and JAPAN WAX.Works: Bermondsey.
Tel. No.: Hop. 2029.

BEE-HIVE

TRADE



MARK

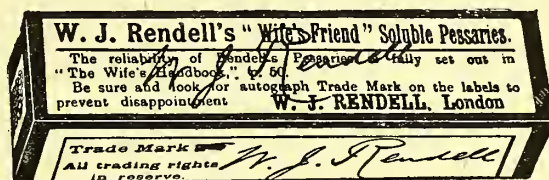
REGISTERED FOR OUR
WELL-KNOWN BRANDS
OF CERESINE WAXES.**CERESINE WAX**WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
AND RESIDUE
BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING
POINTS
OZOKERITE WAX ALL GRADES**POTH, HILLE & CO., LTD.,**

6 Lloyd's Avenue, London, E.C.3.

Works at
Stratford, E.

*First——50 years ago
Unequalled——To-day*

**RENDELL'S
SOLUBLE QUININE PESSARIES**



Recommended by the Medical Profession.

Chemists in all parts of the country find that this preparation is selling better than ever because

The Public will not tolerate substitutes

Don't run the risk of disappointing a customer. Get a supply of "RENDELL'S" from your Wholesaler.

W. J. Rendell

Inventor and Sole Maker.

Interesting Literature can be obtained free upon request.

Retail (in envelopes) 6d.

Capsoid ~ Thermal Socks

ANTISEPTIC and WARMING

NOTE
The Word
CAPSOID

ATTRACTIVE CARDS AND SHOWCASE.
Order through the Wholesale (by NAME) or direct—
R. H. ALLEN & Co., Manufacturing Chemists,
SYDENHAM :: LONDON, S.E.26

STOCK THE SELLER THIS WINTER.

Made with the years of experience behind them of the Specialists and Pioneers of the Chemists' Genuine Medicated Sock Trade.

OTHER BRANDS—

"BULL DOG" Boracic Socks, 4½d.
"SPEEDWELL" Boracic Socks, 6½d.
"KOMFYSOLS" Boracic Socks, 6d.
"SPEEDWELL" Anti-Rheumatic Sulphur Socks, 6½d.
"THERMOPEDE" Anti-Rheumatic Socks, 6½d.

"SURCO"

Always Reliable

WRITE FOR CATALOGUE

ELASTIC HOSIERY
BODY BELTS
TRUSSES
SUNDRIES

Surgical Hosiery Co., Ltd. Russell Street, Nottingham

THE H. W. BOTTLE

YOUR CUSTOMERS WILL ASK FOR



IS
THE 'WENBERY'
"NEWBERYS"
(F. NEWBERY & SONS LTD.)

CHARTERHOUSE SQUARE
LONDON, E.C.1

CARDIFF
CRICHTON PLACE

LIVERPOOL
COLLEGE LANE

GEISHA CREPE
TOILET PAPER
de Luxe
SOFT DAINTY SOLUBLE
FULL STANDARD SIZE
PERFECTLY PERFORATED
Fits Standard Holder
5d PER ROLL

SOLD WIDELY
FOR THE PAST
23 YEARS

Obtainable
from all
Wholesale
Factors

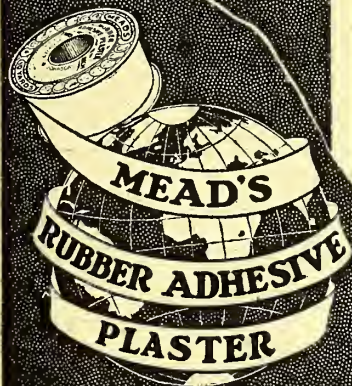
Fine Wooden Cases
containing 144 Rolls

Write for Sample Roll.
Prices and Terms to:-

H.C. STERN
12 FARRINGTON AVENUE
LONDON E.C.4.
'PHONE: CENTRAL 3140

*"Brilliant
idea"*

F.R.C.S.

**The World's Standard**

Doctors delighted!

The success of Mead's Rubber Adhesive Plaster as evidenced by steadily increasing sales—sure sign of the full endorsement of its reliability by discriminating Medical Men, Hospitals and Governments the world over—has led us to put it up in an entirely new and additional form: the "Multiwidth."

The "Multiwidth" is much appreciated by busy practitioners and nurses, since it provides in a handy form for the surgery or visiting bag 4 widths of strapping on one spool.

It also sells readily for first-aid use in factories, etc.

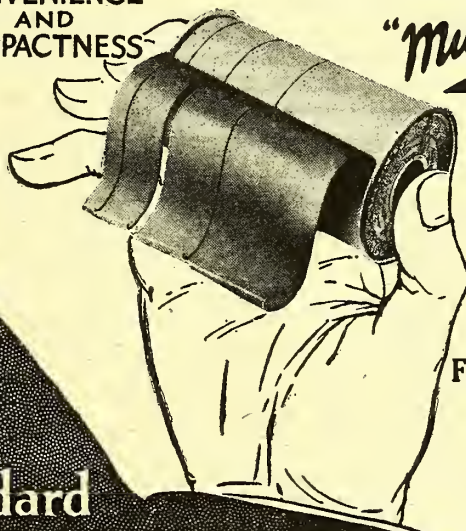
Seabury's "Multiwidth" Oxide of Zinc Plaster is supplied at the same price and on the same terms.

MEADS *"Multiwidth"* Rubber Adhesive Plaster AND SEABURYS *"Multiwidth"* Oxide of Zinc Plaster

Each spool contains 5 yards of each of the following widths:—
 $\frac{1}{4}$ -in., $\frac{1}{2}$ -in., $\frac{3}{4}$ -in. and $1\frac{1}{2}$ -in. (see illustration).

42/6 per dozen spools. Subject to the usual
Seabury discounts.

THE ACME
OF
CONVENIENCE
AND
COMPACTNESS



THE
"Multiwidth"

PACKING
4 WIDTHS
ON
ONE SPOOL

Sole Consignees:
**FASSETT & JOHNSON
LTD.**

86 Clerkenwell Road
LONDON,

and at
Dublin, Sydney, Cape Town

Best sellers
The public is asking
for **ZEAL**
CLINICAL
THERMOMETERS
because they are:-
GUARANTEED TO
STAY ACCURATE
CONSISTENTLY
ADVERTISED

Made by
ZEAL

—the name the
public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



A small display of
NORVIC
BLUE CARTON
CRÉPE BANDAGES
brings surprising results

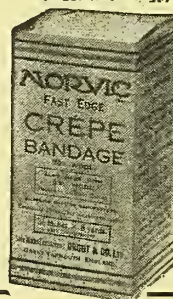
A small display on the counter or in the window attracts the better-class customers.

You can sell NORVIC bandages with the definite knowledge that they will bring repeats because they are dependable, extremely elastic and most durable.

P.A.T.A. PRICES.

	2"	2½"	3"	3"
Cost:	12/-	15/3	18/3	21/3 24/3
Sell:	1/6	1/11	2/3	2/8 3/-

GROUT & CO., LTD.
35 WOOD STREET, LONDON, E.C.2



"Wimaco" Specialities, British and Best.
HOT WATER BOTTLES—Grey and Red. Finest quality heavy weight rubber

INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO.
WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX

T. SHERBORNE & CO., LTD.

Surgical Appliance Manufacturers,
ABDOMINAL BELTS, SPRING TRUSSES, ELASTIC
BAND TRUSSES, SUSPENSORY BANDAGES, &c.

Phone: Syd. 517.] Wholesale & Export only. [Est. 1903.
KINSLOE WORKS, Herschell Road, LONDON, S.E.23

FORSTERS & VAPOURISERS
FENOLIN for
FLUID Whooping Cough
Hall, Forster & Co., Ltd.
Newcastle-on-Tyne.
ON P.A.T.A.
4oz. (11/5) 11/-

SIMPLIC (Patent) SOOTHERS
THE BEST MADE SOOTHER ON THE MARKET.

Each Soother
packed in Dust-
proof Carton.

No stale stock
from exposure
or handling.

2 dozen Soothers
in Artistic
Container,
as illustrated.

Made in two sizes.



Ask also for
SIMPLIC TEATS
Each in Carton.

Packed in
Display Outer
of 3 dozen
assorted Teats.

The Name
"SIMPLIC"
is a Guarantee
of Excellence.

SIMPLIC SPRINGLESS TRUSS
FOR BATHING AND EVERYDAY WEAR.

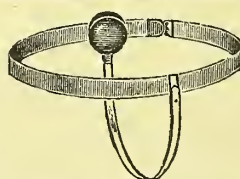
Made with Circular, Inguinal or Scrotal Pads.

INSTANTLY
ADJUSTED.

FITS EVERY
SIZE & SHAPE
PERFECTLY.

SUITABLE FOR
ALL CLIMATES.

The SIMPLIC TRUSS is specially designed for Bathing. It gives just the correct support for each case.



CAN BE WORN
AT ALL TIMES
UNDER ALL
CONDITIONS.

THE PERFECT
TRUSS.

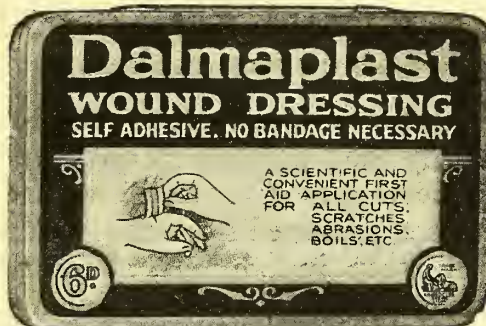
ASK YOUR WHOLESALE FOR LATEST TERMS.

Manufactured by **J. G. FRANKLIN & SONS, LTD.,** BIRKBECK RUBBER WORKS, LONDON, E.8.

Makers of Fine Rubber Pro-
ducts for over Sixty Years.

"DALMAPLAST" WOUND DRESSING

THE MOST
POPULAR
POCKET
WOUND
DRESSING
ON THE
MARKET.



ATTRACTIVELY
PACKED IN
THREE SIZES.

EXCELLENT
DISPLAY
MATERIAL
SUPPLIED.

No. 120. 3d. Packets,
2/- per doz.
Carded in 1 doz.
Also in boxes of 1 doz.

FACSIMILE OF 6D. TIN.

No. 121. 3/9 per doz.
In display boxes of 1 doz.

No. 122. 1/- tins,
7/6 per doz.
In display boxes of
1 doz.

Sells freely wherever shown.

Write for Samples NOW.

A. de St. DALMAS & Co. Ltd.
LEICESTER

*The best known and most reliable non-greasy
pessary on the market.*

Sold by high-class chemists all over the Country.

BERTRAND'S
NON-GREASY

ODOURLESS Quinine PESSARIES

Price 15/- per dozen Tins.

SEND FOR FREE SAMPLE.

CHARLTON & CO., Sydenham, London, S.E.26

Telephone—Sydenham 3079.

Or from Leading Wholesale Houses.



CONTRACEPTIVES

of every variety and highest qualities, including the famous
"EMPIRE" Brand. WRITE FOR CATALOGUE.

BURGE, WARREN & RIDGLEY, LTD.

91/2 Great Saffron Hill, LONDON, E.C.1.

*Phone—Holborn 0050.

Telegrams—Pessaries, Smith, London.

E. M. WALDEN Ltd.

Manufacturers of Surgical Instruments, &c.

SURGICAL, VETERINARY & DENTAL INSTRUMENTS;
HOSPITAL FURNITURE; STERILISERS; SYRINGES;
SURGICAL GLASS & ENAMEL WARE; SURGICAL
DRESSINGS OF ALL DESCRIPTIONS; SUNDRIES.

Wholesale & Export Only.

136 Borough High Street, London, S.E.1.



No. 785.

Telegrams:
"Walden Hop 5645."
Phone: Hop 5645-6.

G. W. CARNRICK CO.

DEPENDABLE GLAND PRODUCTS

Specify CARNRICK (Trade Mark)

Our organotherapeutic products are made from fresh glands of healthy food animals in our own laboratory, under the supervision of competent chemists. All moisture has been removed from these gland products and they will keep indefinitely if contents are not exposed to moisture and bottle is kept tightly corked.

**HORMOTONE
SECRETOGEN
VIRILIGEN
RYTHMIN**

**TRYPSOGEN
KINAZYME
MAMMAGEN
ERYTHROGEN**

Special Formulae:

- | | |
|--------------------------------|------------------------------------|
| No. 1. Glandular Comp. (Male) | No. 7. Parathyroid Comp. |
| No. 2 Glandular Comp. (Female) | No. 8. Thymus Comp. |
| No. 3. Pineal Comp. (Male) | No. 9. Mammary Comp. |
| No. 4. Pineal Comp. (Female) | No. 10. Suprarenal-Pituitary Comp. |
| No. 5. Orchic-Prostate Comp. | No. 11. Ovarian Comp. |
| No. 6. Corpus Luteum Comp. | No. 12. Renal-Pancreas Comp. |

ASK FOR COMPLETE LIST OF SINGLE GLAND PRODUCTS

Distributors for G. W. CARNRICK CO'S Products :

- | | | |
|----------------|---|--|
| LONDON - | - | BROOKS & Warburton, Ltd.,
40-42 Lexington Street, London, W.1. |
| AUSTRALIA - | - | AYERS & JAMES PTY., Ltd., Melbourne.
ELLIOTT BROS., Ltd., Sydney. |
| HOLLAND - | - | FIRMA B. MEINDERSMA,
The Hague — Amsterdam — Sneek, |
| INDIA - | - | MULLER & PHIPPS (INDIA) Ltd. |
| NEW ZEALAND - | - | CONNELLY BROS., Auckland and Wellington. |
| SOUTH AFRICA - | - | LENNON, Ltd., Cape Town.
SIVE BROS & KARNOVSKY, Johannesburg. |

THE CHEMIST AND DRUGGIST

42 CANNON ST.
LONDON E.C. 4

SUPPLEMENT

OCTOBER 20, 1928

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on.

Post Office Wrappers, Stamped ONE PENNY, to ensure prompt delivery.

If wrappers bear a halfpenny stamp only, postal delivery is delayed.

Loose stamps will not be accepted.

CLOSING FOR PRESS.

ALL ADVERTISEMENTS INTENDED FOR
INSERTION IN THIS SUPPLEMENT

MUST REACH US
NOT LATER THAN

FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation.

1.—KENSINGTON.—Good-class Retail and Dispensing Business; established over 50 years; returns, present rate, £2,250; net profit, £650; small shop; estimated value of stock and fixtures, £900; lock-up shop; rent £30; price £1,550.

2.—LONDON, N.—Dispensing and Photographic Business (Kodak); returns, under the management of a lady, £1,500 per annum, rapidly increasing; large shop, in very good position; house sublet at £2 weekly; long lease; price to be arranged; part payment entertained.

3.—N.W. SUBURB.—General Retail and Dispensing Business, with Kodak Agency and small Ladies' Hairdressing Department; returns approach £50 weekly; good living accommodation; moderate rent; held on lease; price £1,200.

4.—SOUTHERN COUNTY.—General Retail and Dispensing Business in good-class, growing district; returns, present rate, £33 weekly; scope for large increase; double-fronted shop; good house, with bathroom and back entrance; held on lease; price £1,050.

5.—SURREY.—General Retail Business, with N.H.I. Dispensing; returns, under management, £2,000 per annum; double-fronted shop; good position; convenient residence; new lease; offers invited.

6.—CHELSEA.—Family Retail and Dispensing Business; with N.H.I.; returns approach £1,600, at good prices; rent £80; held on lease; good house, with garden and side entrance; price to be arranged; valuation terms entertained.

7.—LONDON, S.E.—General Retail Business; returns, under management, £100 monthly; scope for increase; well-fitted shop; stock and fixtures estimated at £600; held on lease; vendor is desirous of selling quickly and will accept any reasonable offer.

8.—HOME COUNTY (Progressive Town).—General Retail and Dispensing Business, with Kodak Agency; returns, under management, £2,200; rent £100; long lease; price £1,350.

9.—SCOTLAND (Death Vacancy).—Very old-established Business for disposal, with approximate turnover of £6,000 per annum at good prices; double-fronted shop, with large and varied stock; excellent house, with side entrance; freehold may be purchased; further details on application.

10.—NEWMARKET (near).—General Retail and Dispensing Business, with Kodak Agency; returns £30 weekly; scope for increase; good house; rent £100; price £800, or valuation terms entertained.

11.—DORSET.—Cash Drug Store, in prominent position on main road; turnover exceeds £30 weekly; well-fitted corner shop, fully stocked; vendor also has a Tobacconist's Business next door, with Post Office; the premises may be purchased or a lease will be granted; combined price for the two businesses £1,550.

12.—DERBYSHIRE.—General Retail Business with Kodak Agency; very old-established; returns average £40 weekly; shop has two windows; good house, with garage and garden; rent £50; held on lease; price £1,400.

13.—STAFFS.—General Retail and Dispensing Business, producing a net income of £350 per annum; single-fronted, lock-up pharmacy; rent £23; nearest opposition 1½ miles; price £350, or valuation of stock and fixtures only.

14.—SURREY.—Optical Business for disposal; returns £20 weekly; net profit 50 per cent.; good house, with garden; long lease; price £450.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer and Valuation Department

Head Offices—Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant and Valuer. Phone: City 1261-2-3

BUSINESSES FOR DISPOSAL

1.—**WARKS**.—Old-established Business, Chemist and Optician; on lease with 3 years to run, with option of purchase; rent £50 p.a.; house attached let off £50 p.a. on monthly tenancy; returns £16-£17 p.w. Full particulars on application. (155)

2.—**LONDON, S.E.**—Recently established Drug Stores, held on lease 14 years at £55 p.a., rising to £60 p.a. for last 7 years; premises consist of large lock-up shop with room at rear; returns average £12 per week; great scope for qualified man and N.H.I.; no reasonable offer refused.

3.—**MANCHESTER (District)**.—Old-established Dispensing Chemist Business in good-class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity as quick sale is desired; good reasons. (172)

4.—**DURHAM CO.**—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)

5.—**STAFFS DISTRICT**.—Excellent opportunity for qualified man. Drug and Photographic Store on lease 5 years to run at £40 p.a.; returns £10 per week; could be easily trebled; good living accommodation; full particulars on application. (169)

6.—**HULL**.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up shop; good prospects for a young qualified man. Further particulars on application. (170)

7.—**CHESHIRE**.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

8.—**LONDON, S.W.**—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management. Full particulars on application. (148)

9.—**LONDON, N.**—Old-established Retail Dispensing Cash Pharmacy, with N.H.I.; well fitted and good stock carried; premises, which consist of nice pharmacy, dispensary and six rooms, to be disposed of freehold at £1,250; returns average approximately £24 per week; can be increased with capital; no reasonable offer refused.

10.—**LIVERPOOL**.—For disposal, owing to ill-health, Chemist and Druggist's Business; lease can be obtained; rent £65 per annum; excellent living accommodation; returns average £17 per week; price for lease and goodwill £50; fixtures and fittings £175; stock approx. £300. Full particulars on application. (167)

11.—**SHEFFIELD**.—Established on February 1 last; turnover £12 to £15 per week; rent £40 per annum; five years' lease from February 1; stock about £400, fixtures £300-£350. Further particulars on application.

12.—**SOUTHEND-ON-SEA**.—For immediate disposal, Chemist's Business, in busy centre; premises consist of lock-up shop, with Dispensing and storage room; rent £200 p/a annum, progressive; returns average £1,500, could be increased. Full particulars on application. (175)

13.—**ESSEX (Health Resort)**.—Prescribing and Dispensing Business; established 24 years; no opposition; Kodak Agency; good opening for Optical and Dental; owner retiring. Further particulars on application.

14.—**CARMARTHENSHIRE**.—Old-established Chemist's Business situated in good position on main street, with living accommodation; held on lease for 7-14 years; rent £400 p.a.; returns average £35-£40; could be increased; stock approx. £8-900. Further particulars on application. (176)

15.—**LANCS.**—Old-established Chemist's Business, with Wine Licence; premises consist of shop and dwelling-house; property for sale, £1,000. Full particulars on application. (177)

16.—**WHOLESALE**.—We have for disposal an old-established Business of Druggists' Sundriesmen having to vacate premises owing to termination of lease; are willing to dispose of their stock-in-trade, valued approximately £3,000/5,000, to wholesale house at cost price and to transfer goodwill of business; turnover approximately £15,000 p.a. Consideration, owner being employed by firm on terms agreeable.

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—**CHESHIRE**.—Old-established, good-class Country Business; pleasantly situated; returns about £2,500; net profits £600 to £700; books audited; very commodious house; nice garden; fully stocked; price £1,600, freehold £1,300.

2.—**SOUTH-EAST COAST**.—Old-established Light Retail, in central position; no side lines; returns about £1,500; plenty of scope; net profit £400; good house and garden; owner retiring; price with freehold £2,000; worth attention.

3.—**WILTS.**—Unopposed Mixed Country Retail, returning £1,150; net profit £400; large house and good garden; ample storage room; owner going abroad; price, with freehold, £1,350.

4.—**HAMPSHIRE**.—Good-class Family, Dispensing and Photographic, in market town; returns over £2,000, increasing; modern pharmacy; fully stocked; price £1,600.

5.—**EASTERN COUNTY**.—Good-class Business; neglected returns £1,500; plenty of scope; large house and pharmacy; price £800, or valuation, plus small goodwill.

6.—**OXON**.—Good medium class Retail, with Kodak Agency, in good position, returning under manager £2,200; scope for increase; price £1,350.

7.—**KENT (30 miles out)**.—Sound Light Country Retail; pleasantly situated; quite unopposed; returns approach £1,500; good house; price, with property, £1,600.

8.—**NORTH-EAST COAST**.—Light Retail and Dispensing with Kodak Agency; returns £2,350; good house; corner position; stock and fixtures worth £1,500; price £1,850.

9.—**MANCHESTER (near)**.—Profitable Cash Retail, with N.H.I. in busy town; returns £950; net profit £538; low rent; house attached; double-fronted shop; excellent stock; price £500.

10.—**LONDON (Western Suburb)**.—Good-class Retail, with Kodak Agency; main road position; growing district; returns over £1,700, increasing; modern double-fronted shop; fully stocked; price £1,350.

11.—**LONDON, E.**—Profitable Cash Retail and Photographic Business in busy main road; present returns £1,500, under manager; scope for increase; valuable lease; price £1,050, or offer.

STOCKTAKING VALUATIONS.

We are now booking dates for October onwards, and invite early application. Terms on application.
Estab. 1870. Telephone: Terminus 3574.

Write ERNEST J. GEORGE

ABOUT THE BUSINESS YOU
HAVE TO SELL OR REQUIRE.

Private Register kept of Businesses For Sale and Required.
Strictest confidence observed.

7 SOUTHAMPTON ROW, LONDON, W.C.1

3 St. Paul's Close, WALSALL Tel.: Holborn 8158
Tel.: 774 & 1000 Walsall

CHARLES C. MARSDEN, F.N.A.A.

Chemists' Valuer, Transfer Agent and Stocktaker

44 SHOLEBROKE VIEW, LEEDS.

SHEFFIELD (near).—Good cash retail with large N.H.I., doing about £1,400. Price £700. INLAND SPA.—Good class Dispensing with Toilets and Photog. A bargain. Full particulars on receipt of banker's reference. LEEDS.—Cash retail and N.H.I. doing about £1,000. Scope for increase and Photog. Price £400.

BUSINESSES WANTED.

WANTED, a sound Business within 30 miles of or in Birmingham, with turnover of £2,000 or more; no objection to a smaller if position is right and scope. Also for Sale, Business in South Lancashire; price £1,200. References given and required. 254/31, Office of this Paper.

WANTED, a sound Business, cash waiting, with turnover £3,000 or more; must bear strictest investigation; preliminary details to include lease and rental or price of freehold, returns, staff kept, reason of sale; all communications strictly private and confidential; refs. if required. 270/24, Office of this Paper.

BUSINESSES FOR DISPOSAL.

BERKS.—Unopposed Country Chemist's; Kodak, Rexall Agencies; returns £18-£20 weekly; big scope; N.H.I. could be added; nice house, 8 rooms; large garden; owner giving up drug trade; price £500, or reasonable offer; well stocked. 267/24, Office of this Paper.

BIRMINGHAM DISTRICT.—Established Pharmacy; thickly populated working-class district; returns £1,100; good net profit; rent and rates 21s.; N.H.I. average 430 per month; immediate possession of living accommodation; £150, plus stock and fixtures at valuation. 268/25, Office of this Paper.

ESSEX.—Chemist's Proprietary Business for Sale; double-fronted shop in growing neighbourhood; increasing photographic connection; good opening for a qualified man; stock and fittings at valuation; premises, with living accommodation, either for sale or to let on lease. P.C.B. 60/23, Office of this Paper.

KENT COAST.—Village Pharmacy; Kodak Agency; plenty of scope; house of 10 rooms, outbuildings, yard; electric light; wanted Salesman and Prescriber; qualification an advantage; summer visitors; price £300; corner shop; lease. 91 Church Street, St. Peter's, Broadstairs. Personal application.

LANCASHIRE (East).—Branch Business or Sale; opened 17 months ago; splendid opportunity for beginner; returns increasing; good stock and fixtures; working-class district; low rental; near four doctors; only reason for disposal sickness; lock-up shop; £400, accept less for quick sale. Full particulars from 270/38, Office of this Paper.

LANCS. TOWN.—Light Retail, with Kodak Agency; on main street; well-fitted shop; returns average £700 to £800 per annum; now under unqualified management; scope for N.H.I.; price £400; established over 20 years; good prices obtained; house available if required. 270/16, Office of this Paper.

LINCOLNSHIRE.—General Cash Retail Business; returns average £24 weekly, exclusive of Panel; increasing under management; ample stock rooms and very good living accommodation with modern conveniences; price £50 for goodwill, plus valuation terms for stock and fixtures; reasonable rent on long lease. 268/16, Office of this Paper.

LIVERPOOL.—Old-established Chemist's Business, with Post Office attached; under management; good living accommodation (sub-let); electric light; stock and fixtures £450; net profit £350; rent £78 yearly; tenancy with option of lease or purchase of premises. Price for quick sale £700. 270/40, Office of this Paper.

LIVERPOOL: KIRKDALE.—Well-known Chemist's Business, working-class neighbourhood, established over 30 years, has been neglected, taking nearly £600 per year, exclusive of Panel; Panel greatly increasing; energetic manager could soon improve; in a good centre; good reasons for sale; price £300. J. Woods, 20 Brookbridge Road, Clubmoor, Liverpool.

LONDON SUBURB, N.W.—Sound middle-class Cash Business, in main road position; growing district; returns over £60 weekly; audited books; handsomely fitted Pharmacy; heavily stocked; living accommodation available; genuine reasons for selling; price £2,600, or near offer. "N.W." 135/727, Office of this Paper.

NORTH MIDLANDS.—Owner relinquishing, good little Business, doing about £1,000, plus £200-£300 Optics; population about 12,000; useful N.H.I.; good living accommodation; favourable lease given, or premises can be purchased; price of business £800 for quick sale. Ernest J. George, 3 St. Paul's Close, Walsall. Tel. 774.

SOUTH Coast Pharmacy; central position; middle- and good-class business; turnover about £1,500; well stocked; Photographic, Kodak, could be considerable and increased with N.H.I. and Dispensing; house, every convenience; long and cultivated garden; good fruit trees; a growing neighbourhood; bargain, £1,000; genuine; reasons for leaving. 268/14, Office of this Paper.

STAFFS.—Recently-opened Pharmacy, beautifully fitted and well stocked; fixtures, fittings and stock all new; Kodak Agency; electric light; house attached; 10 years' lease, with option to purchase; rent £1 per week; price £450 all at. for quick sale. Further particulars on application. 269/26, Office of this Paper.

STOCKSFIELD-ON-TYNE (Northumberland).—Chemist's and General business for Sale at once, owing to death of lessee; excellent house and garden; charming situation; seven years' lease (renewable); rent £70 per annum; average weekly takings £27; price £850. Apply Brierley, Chemist, Stocksfield-on-Tyne.

WESTCLIFF, ESSEX.—Opportunity for energetic person to work up genuine Light Retail; suit Qualified or otherwise; in present hands 3 years; ill-health compels owner to take up other duties; lock-up with room at rear; well-fitted, nicely stocked; moderate rental with rates; returns about £650; full particulars at interview. "Genuine," 269/37, Office of this Paper.

WEST RIDING (Yorkshire).—Well-established Pharmacy; in good residential district; growing; Kodak, Medicated Wines; good living accommodation; good prospects for smart, energetic qualified man; price about £650. Further particulars 272/39, Office of this Paper.

ATTRACTIVE Perfumery line for Sale; complete with 100 accounts opened. Write Owner, 22 Sunnyside Road, Hornsey Lane, N.19.

BRANCH Business; growing industrial district, near Bristol; returns £16 weekly; rent and rates £90; sub-let £65; double-fronted shop; modern fittings; splendid opportunity for young man; ill-health reason for disposal; price for quick sale £375. Apply 270/37, Office of this Paper.

DRUG Store (lock-up) in rapidly developing district in S.E. London; returns £2,000, under unqualified management; considerable scope for N.H.I. and increased counter; 17 years' lease to run at £68; price for lease, goodwill, fixtures and fittings, £800; stock (about £250) at valuation. 266/33, Office of this Paper.

FOR disposal, an old-established Dispensing and Photographic Chemist's Business, with good living accommodation; easily managed; held on lease; phone, gas and electric; rent £30 and rates £14; net profit over £300; price £700, or near offer. Apply for further particulars to 271/24, Office of this Paper.

FOR Sale, a good middle-class Business situated in an entirely unopposed suburb of an important busy Midland city; returns last year exceeded £2,000; Kodak and Ucal Agencies; scope for increase and a good opening for Optics; splendid living accommodation; audited books; could be worked single-handed; lease will be granted; best offer secures. 270/17, Office of this Paper.

GENUINE Bargain.—Good-class Light Retail Business, situated in best position in busy market town in Eastern county; neglected; returns about £30 weekly; ample scope to double; good opening for Optics; will accept valuation of stock and fixtures; first deposit of £60 secures; good reasons for disposal. 270/36, Office of this Paper.

HIGH-CLASS SURGICAL BUSINESS for Sale, with Proprietary Department, in Yorkshire; living accommodation; main road; easy rent; lease; ill-health reason for selling; attractive bargain for quick sale. Apply 135/718, Office of this Paper.

UNIQUE opportunity of securing first-class Business, with a splendid Branch, either together or separately, in thriving inland spa; good reason for selling; bank reference required; bargain. 268/22, Office of this Paper.

£275 FOR quick sale secures sound, established little Business (Drug, Prescribing and Photo); in present hands 6½ years (proof) and doing £14 average weekly; small but profitable trade; capable of considerable increase under M.P.S.; working-class locality surrounded by factories; main road; unopposed position (London); unique spot for N.H.I. dispensing, as two panel surgeries recently opened, one either side nearby; price includes goodwill, fixtures, stock, etc., also house containing 4 rooms and scullery, with back entrance; rent and rates only 20s. weekly, inclusive; owner taking over larger concern. 271/33, Office of this Paper.

£600, OR valuation, Light Retail Dispensing and Photo Business; changed hands once in 35 years; turnover about £1,000; main road; excellent house, 11 rooms. F. Bidie, Truro.

PREMISES TO LET.

EXCELLENT opportunity for high-class Chemist and Fancy Goods in newly-erected shop and flat over in London Road, Bromley, Kent; rent £200 per annum exclusive; no premium. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley.

SHOP to Let, with 4 rooms over; good position for Chemist requiring low to medium class trade; 10 years' lease at £60 per annum; price £350. Apply 100 St. James Road, Holloway, N.7.

TO Let, old-established Chemist's Business Premises, including Residence (licensed for the sale of Wine and Spirits), 41 High Street, Maryport; vacant possession. Apply Ritson & Co., Ltd., Maryport, Cumberland.

PREMISES FOR SALE.

FREEHOLD Shops, Hackbridge, Surrey.—Main road position, almost outside railway station and two bus stops; a splendid opening for Chemist, not being one within 1½ to two miles; urgently required in the neighbourhood. For particulars apply E. Grout, 6 Link Road, Hackbridge, Surrey.

PARTNERSHIPS.

QUALIFIED Chemist of 25 years' experience seeks an opportunity of meeting with Chemist or firm of Chemists where principal anticipates early retirement and where an offer may be had of purchasing by deferred terms on mutual arrangement; advertiser has had a wide and intimate knowledge of modern trading in Pharmacy, and is accustomed to big business; is able and adaptable, possesses initiative and energy to carry through any plans; communications all treated in confidence and brief particulars only asked for in first letter. "Englishman," 271/4, Office of this Paper. Will advertiser please send name?

AGENCIES.

Well-known Italian Serologic Institute (working under Italian and American Public Health Services Licences) will concede

Sole Agency for Great Britain & Ireland.

Products manufactured: Sera, Vaccines, Tuberculins, Ferments, Organotherapeutics, Antiluetics, Arsenobenzenes. Only applications from well-organised first-class firms will be taken into consideration. Detailed offers with references to: Box M.O. 429, RUDOLF MOSSE, Corso Vittorio Emanuele 30, Milan, Italy.

HOLLAND.—Ortt & Co.'s Handel Mij. (Director, W. J. F. Smith), Agents, Rotterdam (established 1896), invite correspondence with firms of repute desiring representation in Holland; highest references supplied.

LES PARFUMS CORYSE, 64 Chansée d'Antin, Paris, wish to appoint an Agent in this country for the sale of their high-class French Perfumery; must have an established connection amongst Chemists, Stores, etc.

TOILETS.—Manufacturers of an attractive and moderately priced proprietary range of Beauty Products and Perfumes, already introduced, desires to appoint Agents, regularly covering portions of United Kingdom, on liberal commission basis (male or female); applications will preferably be considered from persons with connections, already calling upon good-class Chemists, Hairdressers and Departmental Stores, and Shippers. State (in confidence) age, experience, ground covered, and lines now carrying to 265/40, Office of this Paper.

DIRECTORSHIP.

DIRECTORSHIP offered in established Private Company, proprietors of branded Toilet Goods, etc., also sole selling agents for leading manufacturers; qualification £1,000; additional capital required for advertising and extension of present substantial business; particulars given to principals only at interview London. 135/730, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

[HOME.]

BIRMINGHAM.—Qualified Manager for Branch; experienced, good Window-dresser, with progressive ideas, able to push business. Apply, with full particulars, to Managing Director, Hedges (Chemists), Ltd., Dale End, Birmingham.

LIVERPOOL.—Qualified, young, energetic, trustworthy Manager. State age, experience, salary required, with photo and references, to D. Norman, 269 Crosby Road, Seaforth, Liverpool.

LONDON FEMALE LOCK HOSPITAL, 283 Harrow Road, W.9.—Male or female Dispenser required; whole-time post with evening clinics; commencing salary £120 per annum, with lunch and tea when on duty. Applications, stating age, sex, qualifications, and previous Hospital experience, should be sent to the Secretary on or before October 20, 1928, who will supply further particulars if desired.

LONDON, N.W.—Wanted, early November, qualified Assistant, about 25 years of age; must be a quick and accurate Dispenser; good references essential. Apply, stating salary, to A. J. Merrell, 181 York Road, Camden Road, N.W.

LONDON, S.E.—Young, energetic, qualified man to take charge of Branch: Retail, Photographic and N.H.I. Dispensing. Apply, with full particulars, salary required, 271/30, Office of this Paper.

LONDON, S.E.—Assistant required for high-class Retail and Dispensing business; must be of good appearance and address, a reliable Dispenser and capable Counterman; interview essential. 270/8, Office of this Paper.

MIDLANDS.—Exceptional opening for really smart qualified Manager for Light Family and Retail business, with house attached; applicants must have had experience in a similar capacity and have real initiative. Apply, stating age, previous experience, and salary required, 268/3, Office of this Paper.

OXFORD.—Wanted, at once, Junior Assistant or Improver (male) for nice class Family business with fair amount of Dispensing; one just finished apprenticeship would suit. Send full particulars, with photo, in first letter, to Bellamy's Pharmacy, 68 Abingdon Road, Oxford.

PRESTON.—Unqualified Assistant required, not over 33, for large business in centre of town; applicants must be smart Salesmen and used to selling Surgical Goods. Apply, giving age, salary required, and previous experience, 268/300, Office of this Paper.

SHEFFIELD.—Qualified, gentlemanly Assistant, thoroughly experienced, about 24 years of age, single; capable of managing light Retail, Dispensing and Photo business. Full particulars, age, experience, salary required, etc., to 272/30, Office of this Paper.

ASSISTANT required at once for quick Counter and Dispensing business, lady or gent., not over 26. Please state height, experience, salary required, and enclose photo (snap) in first application. Omit references. Every application will receive a reply. Lack of extensive experience not a bar, providing applicant is adaptable and alert. Manrice Jones, 204 Church Road, Willesden, N.W.10.

CAPABLE Qualified Manager wanted for Branch in Midland town; N.H.I., Photographic, etc.; salary, good house free, and commission on profit-sharing basis. State age, height, experience, when disengaged, married or single, give references, and send photo if possible (returnable), to 270/5, Office of this Paper.

COMPETENT male Assistant for Counter and Optical Room; must have J.C.Q.O. qualification. Write, giving age, experience and salary required, "London," P.C.B. 60/34, Office of this Paper.

DISPENSER-BOOK-KEEPER required, unqualified, for a good-class Retail and Dispensing business. Apply, stating full particulars, age, experience and salary required, to "H. E. K." 271/22, Office of this Paper.

EXPERIENCED Saleswoman wanted for Drugs Department. Write, stating age, experience, and salary required, to Staff Manager, Welwyn Stores, Ltd., Welwyn Garden City.

FOR Light Retail and Dispensing business, no N.H.I., smart, obliging Junior or Improver. State experience, age, references, salary required, enclose photo (will be returned). C. H. Dyson, 360 Upper Richmond Road, East Sheen, S.W.14.

IMMEDIATELY.—Junior Assistant (male) required immediately for Retail Department; one just completed a really good apprenticeship would suit; must have good knowledge of Dispensing and general Retail, and preferably accustomed to Veterinary business (latter not being imperative). State age, height, experience, salary required (outdoor), enclosing photo if possible, to Stone & Son, Ltd., Manufacturing Chemists, Exeter.

JUNIOR Assistant, unqualified, wanted, mainly for Counter (working-class trade), but capable of Dispensing accurately on occasion; to work, not to learn. Apply, by letter, stating age, experience, and salary required, Winters' (Chemists), Ltd., 324 Bethnal Green Road, E.2.

JUNIOR Assistant male, unqualified, for good-class Family and Dispensing business, market town in Hampshire. Apply, stating age, salary required (outdoors), and full particulars, to "Bemex," c/o Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

KENDALL, Chemist, York, have a vacancy for smart Counter Saleswoman, Window and Case Dresser; must be proficient, used to first-class quick business. Write fully, enclosing photo, references, etc.

LADY Dispenser and Book-keeper wanted by Doctor; Wembley district. Please state salary required. 135/719, Office of this Paper.

LADY Assistant, experienced, principally for Toilet Department; able to dress window if required; age not under 21. Apply, with full particulars, stating salary required, to A. J. Wing, Chemist, 69 Powis Street, Woolwich, S.E.18.

LIVERPOOL.—Qualified Branch Manager; medium-class business; outdoors; lock-up shop. Please state full particulars to Hy. Scott & Co., Ltd., Eaton Road, Alder Hey, Liverpool.

MESSRS. COOPER, SON & CO., LTD. require immediately qualified Assistant (male); good Dispensing experience. Apply, by letter, stating age and salary required, to "D. R.," 24 Sloane Street, S.W.1.

PARKES CHEMISTS, LTD., have a vacancy for an unqualified Assistant. Apply, by letter, with full particulars of experience, age, height, and salary required, to the Secretary, 65 Harwood Street, London, N.W.1.

PHARMACEUTICAL Chemist (with Irish qualification) wanted to manage Retail department, first-class establishment, in Irish city; thorough knowledge Counter and Dispensing essential; one with Optical and Photographic experience preferred. State age, salary (outdoor), experience, references. 270/31, Office of this Paper.

QUALIFIED Assistant, male, age about 25, with high-class Dispensing experience. Apply, giving full particulars, experience, salary (outdoor), when free, photo if possible, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

QUALIFIED lady Assistant required for good-class Dispensing and Retail business; aged about 25. State particulars as to salary required, experience, and usual details, with copies of references if possible. Winfield, High Street, Solihull, near Birmingham.

QUALIFIED Manager for lock-up branch on East Coast; comfortable, easy berth open November 1 for all-round man to work alone; help in season; Photographic knowledge essential. Give full particulars, with salary required, in first letter to MacMillan, Hunstanton.

QUALIFIED Assistant, young, in Light Retail and Dispensing. Apply, with full particulars, to T. W. Jones, 55 Bohemia Road, St. Leonards-on-Sea.

QUALIFIED Assistant (abstainer) for country business, to take charge of Drug Department; good-class general trade and N.H.I. Dispensing; indoors; not over 35. Please give full particulars of age, experience and salary expected. J. Marlar & Son, Ltd., Chemists and Wine Merchants, Halstead, Essex.

QUALIFIED Junior Assistant required for Retail, Dispensing and Photographic business; accurate Dispenser and good Window-dresser desirable. State full details, age, experience, salary required, and when disengaged. Hearnshaw, 40 West Street, Leicester.

QUALIFIED Assistant, lady or gentleman, wanted (Minor), chiefly for Dispensing; hours 9-7; no Sunday or Wednesday duty. Kindly state age, height and wages required. E. Vowles, Wells, Somerset.

QUALIFIED Chemist, either sex, as Locum, November 7 to 23 inclusive. State full particulars to Secretary, Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street, Ipswich. Endorse envelope "Chemist."

QUALIFIED Man wanted immediately, outdoor, single, not over 35, as Assistant for good-class Dispensing and Photographic business in S.W. district. Apply, with photograph and full particulars, to 270/29, Office of this Paper.

QUALIFIED Lady or Gentleman; Minor qualification; middle-class trade; N.H.I., Counter and Dispensing; London; £3 week; dinner and tea. Apply 270/12, Office of this Paper.

SENIOR, not over 40, qualified, required by November for good-class Family business, to take charge of Counter and generally manage Retail; permanency, with prospects. Please give fullest particulars, in confidence. All applications answered. Mr. Crick, Stonham & Son, 70 Bank Street, Maidstone.

WANTED, competent and trustworthy Assistant, qualified or unqualified, from 30 to 40 years of age; live out; usual duties. Apply, with full particulars, stating salary required, also photo if possible, to G. Beall & Son, Rexall Pharmacy, Cambridge.

WANTED, by Co-operative Society in the Manchester district, a qualified Manager for Pharmacy. Applications, stating age, experience, wages required, and endorsed "Pharmacy Manager," to be received not later than Friday, October 26, 1928. 135/723, Office of this Paper.

WANTED, about October 29, young Qualified Assistant with Optical qualification; one accustomed to brisk N.H.I. Dispensing and good Window-dresser essential; substantial commission on Optical work. Please state full particulars to Nidd, Chemist, Queen Park, Manchester.

WANTED, lady Chemist to manage small shop, Harrogate. Write particulars, salary, Brough, 1 Ash Grove, Harrogate.

WANTED at once, Qualified Chemist-Optician as Manager, young; also smart Junior. Lawson, 83 High Street, Hounslow.

WANTED, Dispenser in general medical practice, North London suburb. Send photo, with full particulars of experience; no Sunday work and half-day holiday. 135/729, Office of this Paper.

YOUNG lady Assistant; unqualified. Apply Richardson, 369 Brockley Road, S.E.4.

WHOLESALE.

COUNTER Hands wanted, Wet or Dry, Home or Export, by London house. Write particulars, giving age, previous engagements, and when free, to 135/720, Office of this Paper.

FIRST-CLASS Salesmen required to sell special Perfumes (French) Toilet Novelties and Chemists' Sundries, on commission only. Territories open: Birmingham, Hampshire, Kent, Yorks, Liverpool, Worcester, Sussex. Write "Wholesale," P.C.B. 60/35, Office of this Paper.

INQUIRIES invited from Buying Agents or Representatives carrying other lines to retail chemists, etc.; particulars of scope can be seen in current advertisement.—Write fully (in confidence) to American Hard Rubber Co. (Britain), Ltd., 13a Fore Street, London, E.C.2.

"KISSINGA" Pine Needle Baths, Anti-Corpulence Tablets.—Representatives, calling on Chemists, wanted to offer these well-advertised lines on commission terms. Write fully particulars of territory covered, etc., to Robert W. Phillips, Ltd., Craven House, Kingsway, London, W.C.2.

OLD-ESTABLISHED Firm of Toilet Soap Makers and Perfumers require representation in Northern Ireland and I.F.S., either together or separately. Applications invited from Agents with sound connection amongst Chemists, high-class Hairdressers, Stores, etc., giving full particulars and remuneration required, to 135/728, Office of this Paper.

PILL and Tablet Coater wanted (Pearl and Sugar). Apply "Galenical," 135/725, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith, and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

REPRESENTATIVE who can sell as distinguished from mere order collector required for high-class Toilet and Toilet Perfumery business; territory London area; preference given to applicants with established knowledge of trade and experience on the territory; proved selling ability, however, is the main qualification. Full details of qualifications for this post, age, and salary required to "Sales Manager," 135/721, Office of this Paper.

REPRESENTATIVES required, already calling on Wholesale and Retail Chemists, to carry as side line a solution for sealing bottles; two small samples carried. Apply 134/671, Office of this Paper.

REPRESENTATIVE (Wholesale) required immediately; one with connections to the Photographic trade preferred. Write, stating experience and terms, to 135/724, Office of this Paper.

REPRESENTATIVES required to push bonus parcels of a nationally advertised Proprietary to Chemists only, on a commission basis; state territory. Yeastpirin, Ltd., 26-27 Hatton Garden, E.C.1.

REPRESENTATIVES, calling upon Chemists, required by firm of well-established Manufacturing Chemists to offer Drugs, Galenicals, etc., upon commission terms. Apply, in first instance, stating territory, to P.C.B. 60/38, Office of this Paper.

SALES Manager required by progressive Company to control Agency Department, Chemists' Proprietary Goods, etc.; must be able to personally typewrite creative sales letters and control travelling staff; commencing salary £250 and commission; investment qualification of £250 necessary, in shares, on which 5s. interest will be paid. Write fully, 135/731, Office of this Paper.

SALESMEN, with established connection Chemists, Stores and Perfumers, can appreciably augment income by handling side-line of attractive, keen-priced packs of high-grade Bath Cologne, etc. Send fullest particulars, age, territory covered, and other goods carried. 271/29, Office of this Paper.

SHIPPING Clerk, with experience in Drug trade and knowledge of Consular Invoices, etc., for South American trade. Apply "B. D. H.," 56/59 Bunhill Row, E.C.1.

THOROUGHLY competent Invoice Clerk (male) wanted in the Home Department of a London Wholesale Druggists; only those with first-class similar experience need apply. State full particulars, age, and salary expected to 135/717, Office of this Paper.

YOUNG Man required, with Chemical knowledge, capable of undertaking experimental work in connection with the production of Medicinal and Toilet preparations. State full particulars of experience, age, whether disengaged, and salary required, to 272/2, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

FRENCH RIVIERA.—Young gentleman (qualified) for season as Dispenser; must have experience of high-class work. Send full particulars of age, experience and references (with photo if possible) to "B. C. J.," c/o Newbery's, Charterhouse Square, E.C.1.

FRENCH RIVIERA.—Young gentleman (unqualified) for season as Counter Assistant; good address and experience of high-class business essential. Send full particulars of age, experience and references (with photo if possible) to "C. J. B.," c/o Newbery's, Charterhouse Square, E.C.1.

INDIA.—Travelling Representative required by London firm of Manufacturing Chemists; age about 28; unmarried; preferably qualified; some acquaintance with Therapeutics and a reasonable knowledge of the more scientific aspects of Pharmacy will be looked for in candidates. Apply, with full particulars of age, previous experience, and salary required, to 135/726, Office of this Paper.

SOUTH AFRICA.—Wanted, young man to undertake the Manufacture and Packing of Talcum Powder, Insect Powder, Tooth Powder, and kindred lines. Reply, giving age, qualifications, and salary required, to "X. Y. Z.," 135/722, Office of this Paper.

SITUATIONS WANTED.

RETAIL. [HOME.]

A.A.A.—EXPERIENCED Assistant, unqualified, 25, male, desires post, good-class business; London only (City preferred); temporary or permanent; free November 5; attending evening classes twice a week. "D.," c/o 17 Castelnain Road, W.9.

A.A.A.—CAPABLE, all-round man, abstainer, middle-aged, active, desires post where study of employer's interest would meet appreciation; married; London or provinces; disengaged; moderate salary; offers invited. "Ambitious," BM/ZP6N, London, W.C.1.

A.A.A.—QUALIFIED, 32, single, desires position as Branch Manager or Senior; first-class experience; excellent references. 269/35, Office of this Paper.

A.A.—EXPERIENCED Assistant or Locum; unregistered; Dispensing, Counter, Windows, Prescribing; obliging; trustworthy. "Aspro," 16 Brixton Road, S.W.9.

A CAPABLE, qualified Assistant, 24, desires situation in a good-class Pharmacy, or as Manager of small branch business; South England preferred; excellent experience (London and country); good Dispenser. D. C. R. Tyrrell, 3 Holland Street, Barnstaple, Devon.

A RELIABLE Qualified Man; excellent references; middle-aged; anything. "Chemist," 22 Cotton Lane, Moseley, Birmingham.

A YOUNG qualified man seeks engagement in London; trustworthy; reliable; not afraid of work or responsibility; good all-round experience; free immediately. Richards, 21 Anson Road, Tufnell Park.

A CTIVE Manager; 7 years' managing experience; age 33; town or country; responsible position required. 250/8, Office of this Paper.

A CTIVE Manager, good middle-class experience, requires responsible position. 41 Essex Road, Chingford, Essex.

A MBITIOUS young man, qualified, at present managing in Home County, desires change, Manager or Senior; knowledge of Optics. 268/19, Office of this Paper.

A PPRENTICE.—Young lady desires Apprenticeship; has School Certificate, also Higher School Certificate with Physics, Chemistry and Botany; Silver Medal Elocution; intends to fully qualify. Dickinson, "Greenfields," Linton, Burton-on-Trent.

A PPRENTICESHIP.—Youth, pass London Matric, wishes to be Apprenticed to Chemist in S.E. London. Apply F. T. Harrison, 57 Sydney Road, W.13.

A PPRENTICESHIP WANTED.—Girl, 16, tall, seeks situation; secondary education; passed Preliminary; preferably in Leeds, Bradford, Batley, Dewsbury, Wakefield, or surrounding districts. Jeanie Smith, Alexandra Crescent, Dewsbury Road, Ossett.

A S Manager, qualified, 30, desires change; excellent experience; keen buyer; capable sole charge; 6 years' East and West London experience as manager. "Scot," 264/35, Office of this Paper.

A S Manager; qualified; good experience, Dispensing, Sales, Photo. "Chemist," 86 Chelmsford Road, South Woodford, E.18.

A S Manager; qualified elderly Chemist; highest testimonials as to efficiency; disengaged. M.P.S., Tamar House, Stourvale, Christchurch.

A S Manager, Senior, relief; good general experience, Dispensing, Photo, Salesman; smart, quick, neat. "G.," 130 Scott-Ellis Gardens, N.W.8.

A S qualified Senior, past middle-age, requires position of trust; good refs and all-round experience; Surgical Appliances; Prescriber; Spectacles, etc.; tall; personal interview preferred. "H. R. D.," 17b Canonbury Square, N.1.

A S Manager; experienced; qualified; preferably with view to interest in business or succession; Birmingham or district preferred; disengaged. 269/28, Office of this Paper.

A SSISTANT, 21, 5 ft. 11 in., seven years present situation, first-class pharmacy, taking Part I Christmas, desires London experience, West End preferred. 263/19, Office of this Paper.

A SSISTANT or Locum; London district; unqualified; middle-aged; experienced Dispenser. G. Fall, 105 Tottenham Lane, Hornsey, N.8.

A SSISTANT, Junior; 7 years N.H.I. and Photographic Pharmacy; 5 ft. 4 in.; North London preferred. Write 267/28, Office of this Paper.

A SSISTANT, 22, unqualified, high-class Dispensing experience, desires situation in good-class Pharmacy; West or South-West London. 266/34, Office of this Paper.

A SSISTANT; unqualified; 27; 6 years' experience, Counter, Photography and Stock; references; disengaged; London or suburbs. 268/12, Office of this Paper.

A SSISTANT; unqualified; 25; single; 8 years' experience; excellent references; within 30 miles of Derby. 268/24, Office of this Paper.

A SSISTANT, 24, 6 years' experience, Counter, N.H.I., Photographic, Window-dressing, good references, desires situation in Birmingham or the vicinity of Newport or Cardiff. 269/22, Office of this Paper.

A SSISTANT, just qualified, 22, seeks post in good-class Dispensing and Retail business; good address; all-round experience; excellent references; total abstainer. Marsh, 7 The Crescent, Maidenhead.

A SSISTANT; unqualified; young; temporary or permanent; experienced in all branches; willing. D'earth, 506 Green Lane, Seven Kings, Essex.

A SSISTANT; full time, excepting Tuesday, Wednesday, Thursday evenings to 6 o'clock, attending college; seven years' all-round experience. Caunter, 21 Fitzneal Street, Shepherd's Bush, W.12.

A SSISTANT (referred Pharmaceutical Chemistry) requires post in London or Home Counties; 5 ft. 10 in., age 24; experienced; capable; good salesman; interview if required. Mumford, Woodlands, Linden Road, N.15.

A SSISTANT, Chemist, Belgian, looks for situation in England or Colonies; Chemist or Chemical House. Post Box, 88 Ostende, Belgium.

A SSISTANT, unqualified, requires situation in or near Birmingham; used to quick N.H.I. and high-class Counter work. "Aspirin," 215 Bevington Road, Aston, Birmingham.

A SSISTANT, qualified, lady, requires position; Dispensing, Counter. "Chemist," Ames House, 44 Mortimer Street, W.1.

A SSISTANT; 24; unqualified; seven years' good all-round experience, including West End. 28 Willoughby Road, Acton Vale, W.3.

A SSISTANT; 21; unqualified; good experience, Dispensing, Counter, Photographic; disengaged; Lancashire preferred. Wright, Lansdowne Terrace, Heysham, Morecambe.

A SSISTANT, unqualified, 22 (referred Part II), accustomed to high-class business, requires position until Christmas. "F. L. M.," 8 Patrick Road, West Bridgford, Notts.

A T liberty about 29th; qualified man; experienced; full or part time; salary moderate. "Chemist," "Lauriston," Disraeli Road, W.5.

C HEMIST, middle-aged, disengaged, conscientious, abstainer, wishes month's trial on small salary; full or part time. "Chemist," 53 Louis Street, Leeds.

C HEMIST-OPTICIAN, on J.C.Q.O., expert Refractionist, business builder and organiser, requires management, with or without succession; late proprietor; age 40. Full particulars to 268/1, Office of this Paper.

C LERICAL (Book-keeping, etc.); any kind; terms moderate. Write "X. Y. Z.," 254/20, Office of this Paper.

D ISENGAGED.—Male Dispenser; Doctor's Surgery preferred. Bradburn, 187 Trealew Road, Trealew, Glam.

D ISENGAGED.—Assistant; West-End experience; age 35; Locum or permanency. Arthur, 62 Caldecot Road, Denmark Hill, S.E.5.

D ISENGAGED; qualified; all-round experience; Locum (or permanency London); middle-aged. "M.P.S.," 156 Lower Road, Clapton, E.5.

D ISENGAGED; emergency relief Assistant or Manager; any period; thoroughly competent; reliable; highest references. "Locum," 239 Camberwell New Road, S.E.5.

D ISPENSER, Book-keeper; 5½ years in last post; disengaged; Hall qualification; case of instruments; Panel. 855, London Road, Westcliff-on-Sea.

D ISPENSER, qualified (male), requires post with Hospital, Institution, Doctor, etc.; reliable; excellent references. "M.P.S.," 42 Frederica Road, Bournemouth.

E XPERIENCED Assistant; unregistered; well recommended; can manage; exceptionally good at Counter, Prescribing, Dispensing; equitable salary for permanency; kindly quote salary offered; disengaged. "Photoptic," 21 Albion Place, Maidstone.

E XPERIENCED Chemist desires post as Manager; Counter, Dispensing, Photography; highest references. "Qualified," 23 Cranbrook Road, Ilford.

EXPERIENCED lady Book-keeper desires position; thorough knowledge of the trade; highest references. 270/13, Office of this Paper.

IN London, Suburbs, or Eastern Counties.—Recently qualified (23) seeks situation; 7 years' excellent experience in all branches, including Window-dressing, Photography, Counter. Trett, 52 Stockwell Park Crescent, Stockwell, S.W.9.

J.C.Q.O., M.P.S., 25, capable Refractionist, good as Senior or Manager. "H. B.," 63 Clinton Road, Bow.

JUNIOR Assistant, age 19, requires permanency; West-End experience; Midlands or Northern Counties preferred; excellent Window-dresser. Write 268/7, Office of this Paper.

LADY, M.P.S.; 11 years' experience, Dispensing, Counter, Photographic, Agricultural; at present managing; North Wales district preferred. Butler, Glyn-Ceiriog, near Wrexham, Denbigh.

LADY seeks position as Book-keeper-Assistant to Chemist; good Counter experience; 10½ years at last situation; good references; near London preferred; disengaged. "M. B.," 30 Acacia Grove, West Dulwich.

LADY Dispenser (Hall) requires post, whole or part time, Dispensing and Book-keeping, with Doctor, N.H.I. work with Chemist; 11 years' Institutional work; excellent references from Doctor, Chemist, Institution. P.C.B. 60/22, Office of this Paper.

LADY Dispenser (Hall) desires post as Assistant in Institution; now disengaged. Browning, 25 Francis Street, W.C.1.

LADY Dispenser (Hall), disengaged, desires temporary or permanent post (Book-keeping, etc., if required); good references; distance immaterial. "L. D.," 33 Spring Grove Crescent, Hounslow, Middlesex.

LADY Assistant, 21, unqualified, desires post; Dispensing and General Retail. Cox, 700 High Road, Leyton, E.10.

LADY, 26, eight years' Dispensing, General Counter experience, requires situation; Birmingham area. Williams, c/o 238 Wheelwright Road, Erdington, Birmingham.

LADY, qualified, requires position; experienced Dispenser; S.W. district, or near, preferred. Brown, 19 Larkhall Rise, Clapham, S.W.4.

LADY Dispenser (Hall) desires part-time post, £1 weekly; experience Chemist and Doctor. 271/16, Office of this Paper.

LOCUM, permanent; 55; qualified; disengaged October 22; first-class and all-round experience. "Chemicus," Mr. Cherry, Pharmacist, Walton-on-Thames.

LOCUM or temporary; disengaged November 12; first-class all-round experience, including management; age 32; qualified. "Loenm," c/o George, Chemist, Bury.

LOCUM; disengaged; highest references; wide experience; entire charge, or half-day Dispensing. "Chemicus," 12 Upper Richmond Road, East Putney, S.W.15.

LONDON or Home Counties, as qualified Assistant or Manager, with view to succession, Partnership or Directorship; advertiser (24) would give wholehearted time and energy to business with scope for increase and extension, and is prepared to wait for suitable offer. Replies 272/1, Office of this Paper.

LONDON AREA.—Qualified, 25, height 5 ft. 9 in., as Manager; West-End and provincial experience; Photo, Windows, etc.; interview as required. 270/26, Office of this Paper.

MANAGER; 31; married; good all-round experience (now managing); South or West England preferred; excellent references; disengaged November. 261/35, Office of this Paper.

MANAGER or Locum; age 40; Dispensing, Photographic and fair knowledge of Optics; good Window-dresser; disengaged. Clark, 5 Tadburn Road, Romsey, Hants.

M.P.S., LADY, good general experience, excellent references, requires post; West, South-West London preferred. 267/39, Office of this Paper.

M.P.S., EXPERIENCED Branch Manager, energetic, reliable, good references, 36, married, desires permanency, West of South England. 268/6, Office of this Paper.

M.P.S., UNIVERSITY Graduate, with excellent experience in all branches of Retail trade, seeks good post in London. P.C.B. 60/330, Office of this Paper.

M.S.C., 22, requires post as Works or Laboratory Assistant; 18 months' experience in preparing Fine Chemicals. 268/10, Office of this Paper.

M.P.S.; 25; disengaged; good Dispensing and Counter experience; could manage branch or as Locum; N. London preferred. 271/27, Office of this Paper.

PART-TIME.—Assistant requires position in Birmingham; 4 days per week; reliable; highly recommended; age 23; disengaged. "B. O.," 39 Farm Road, Sparkbrook, Birmingham.

PART-TIME post required by Student; evenings and/or week-end; excellent experience. "H. G. V.," 361 Clapham Road, S.W.9.

PART-TIME (referred Pharmaceutical Chemistry) required by lady; South-West area preferred. Newson, 32a Rodenhurst Road, S.W.4.

PHARMACIST and Optician, J.C.Q.O.; 25 years qualified; managership and ownership; Locum or permanency. Tildesley, "Collinwood," Broom Lane, Rotherham.

QUALIFIED lady, 28, 10 years' experience, desires good permanent post; Lancashire preferred. 264/31, Office of this Paper.

QUALIFIED, 21, 6 years' good experience, desires position in or near Birmingham. S. Swift, 67 Raddlebarn Road, Bournbrook, Birmingham.

QUALIFIED; elderly; active; management or Locum; moderate salary. "Chemist," 52 Birkbeck Road, Beckenham, S.E.

QUALIFIED, 24, desires situation with facilities for studying Optics. Brierley, Draycott, Derby.

QUALIFIED, excellent all-round experience, accustomed to sole management, desires permanency as Manager; any locality; town or country; married; well recommended; total abstainer. "Statim," 9 Ash Tree Road, Bitterne Park, Southampton.

QUALIFIED, young, requires situation with good prospects; Dispensing, Counter, Photographic experience; good references. Carlton, 113 Waldegrave Road, Brighton.

QUALIFIED, 22, desires post as Assistant; South London or Croydon district preferred. Braby, 55 Warwick Road, Redhill, Surrey.

QUALIFIED Assistant seeks post; age 21; first-class Dispensing and Counter experience; excellent references. Carrington, "Long Meadow," Bakewell.

QUALIFIED, aged 22, desires situation anywhere; 5½ years' good-class Dispensing and Photography; has experience in Window-dressing and Agricultural requirements. Baron, Winchester Avenue, Blyth, Northumberland.

QUALIFIED, 23, desires situation, Yorkshire district preferred, but not essential; good all-round experience; excellent references; tall; used to managing; disengaged. Atkinson, "Clifton," Dodworth Road, Barnsley.

QUALIFIED young man desires position as Assistant or Branch Manager; excellent experience (including 2 years Harrogate); now managing; disengaged October 27. Firth, 23 Beckett Road, Doncaster.

QUALIFIED lady, 24, desires post; 2 years' experience in Dispensing, Counter and Photographics; highest references. 270/22, Office of this Paper.

QUALIFIED lady requires post in high-class Dispensing business in or near London; good experience and references. "Ephedine," 270/18, Office of this Paper.

QUALIFIED, 24, desires situation as Manager or Senior; all-round experience; excellent references; disengaged. 272/33, Office of this Paper.

QUALIFIED, 28, desires position; good varied experience; references. 269/36, Office of this Paper.

QUALIFIED, young, desires position in Liverpool or Cheshire; has had 12 months' London experience; references; disengaged. 269/39, Office of this Paper.

QUALIFIED lady (October examination), 21, desires post; Lancashire or Cumberland preferred; disengaged; Dispensing, Counter, Photographic experience; highest references. 270/11, Office of this Paper.

QUALIFIED (male), 22, requires situation; London preferred; good and varied experience. Jackson, 371 High Street, Cheltenham Spa.

REFERRED Mat. Med., 25, desires temporary position or Locum until Christmas; highest references. Ashworth, 4 Scatliffe View, Todmorden.

S.E. PREFERRED; thoroughly competent and trustworthy Manager; French (fluent) and German; over 15 years' West-End experience; energetic and up to date; qualified; disengaged October 20. Griffiths, 46 Chalsey Road, S.E.4.

STUDENT seeks employment; evenings and Saturday afternoons; Bradford or Leeds. "C. D. M.," 66 Lower Wortley Road, Leeds.

ALL PUBLIC PHARMACISTS

should join at once

THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS

(Incorporating the National Association of Chemists' Assistants)

BENEFITS: Trade Protection—Legal Aid—Unemployment Benefit—Free Use of Employment BureauWrite for particulars:—ARTHUR J. GILLIAN, Gen. Sec.
149 Newington Causeway, LONDON, S.E.1

W. E. GARLICK, Chesham, desires to recommend; qualified; all-round experience; used to managing; some knowledge Optics; North preferred. Brown, 56 Broadway, Chesham, Bucks.

YOUTH, 17, seeks situation as Junior; experienced Dispensing, Counter, etc.; energetic. "D. B.," 20 Plashet Grove, East Ham, E.6.

WHOLESALE.

A DVERTISER desires representation, Wales, Border Counties, Bristol, West of England; sound connection Chemists, Hairdressers, Stores, etc.; highest references employers and customers. 269/34, Office of this Paper.

A DVERTISER, young, energetic, with sound Wholesale and Retail experience, seeks post as Representative or Stock-keeper. 271/35, Office of this Paper.

CHEMIST, qualified, age 30, good education, energetic and highly recommended, seeks post as Representative to reputable firm in London and suburbs; West End experience; drives car. 269/23, Office of this Paper.

"ENDOCRINOLOGY."—Representative, with first-class knowledge of Glandulars, seeks situation with good Wholesale House. Apply 267/25, Office of this Paper.

GENTLEMAN, 28, sound connection among Chemists, Southern Counties and West of England, desires representation with firm of repute; highest references; disengaged; lengthy Retail experience prior to Wholesale. 270/10, Office of this Paper.

PHARMACIST, with scientific degrees, Laboratory, Medical Propaganda (outdoors) experience, seeks post with good prospects. P.C.B. 60/33, Office of this Paper.

PHARMACIST, 34, several years' experience in Lozenge, Pastille and Tablet Manufacture, Drug Buying and Costing, desires responsible position. 270/33, Office of this Paper.

PHARMACIST, earning capacity £400 in Retail, requires to represent Wholesale House; free on usual notice. 271/26, Office of this Paper.

P.H.C., YOUNG, well educated, energetic, and enthusiastic, with 9 years' Retail and Wholesale experience, desires situation with ample scope; Sales or Advertising. 271/1, Office of this Paper.

REPRESENTATIVE, 10 years' sound connection Eastern Counties, Chemists and Hairdressers, Toilets and Medicinals, desires similar post; 1928 salesman. 260/2, Office of this Paper.

TRAVELLER, with sound connection with London and suburban Chemists; disengaged. 135/716, Office of this Paper.

UNQUALIFIED, age 25, tall, with 10 years' experience in Retail Chemist's business, seeks position in Wholesale House, or as Junior Representative; disengaged. Griffiths, 29 Holyhead Road, Bangor, North Wales.

(COLONIAL, INDIAN AND FOREIGN).

AUSTRALIAN, Irish qualification, experienced Retail, Wholesale, Travelling, desires suitable situation in Australia. 264/37, Office of this Paper.

FOR SALE.

FOR Sale, two Show-cases, 7 ft. 6 in. high, 3 ft. wide, 9 in. deep; three Kodak Developing Tanks; syphon Washing Tanks for Films, 2 ft. sq. by 4 ft. deep; four position Printing Machines.—Brooks Drug Stores, 509, New Cross Road, London, S.E.14.

SUTCLIFFE Bottle Dryer, 7 ft. 6 in. x 2 ft. 3 in. x 3 ft., together with Steam Coil and six Wire Trays, but minus Fan, £6. Also Sun Boiler for gas, with Thermostat, £6 to clear. Cuxson, Gerrard & Co., Ltd., Oldbury.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.

I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Rd., Liverpool

MISCELLANEOUS.

CHEMIST FITTINGS.—Complete Fittings in stock. Ranges of Drug Drawers with glass labels, shelving and lockers, glass-fronted Counters, Dispensing Screens, Wall Cases, etc.; all made in sections which any local man can fix. Also Second-hand Fittings, Shop Rounds (ribbon and recess labels); Cash Tills from 15s. 6d.; Kwik-Sale Case, special Chemist design. D. MATTHEWS & SON, Chemist Fitters, 14 and 16 Manchester Street, Liverpool.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

SECOND-HAND.—Three Sifting and Mixing Machines, Gardner's Rapid; four Slingsby Sliding-Wheel Trucks, to carry six trays each; four Electric Motor Fans, in sound working order; four solid plate-glass, polished, bright, airtight, mirrored Wall Cases, fitted with four rows; polished edge plate-glass Shelves and wired for electric lights; 2 dozen small Adjustable Stands, fitted with polished edge, plate-glass shelves. P.C.B. 60/37, Office of this Paper.

£77 10s. for set of Mahogany Fittings; consisting of 10 ft. Drug Run fitted glass-knobbed and labelled drawers, lockers, etc.; 8 ft. glass-fronted Counter, 6 ft. Wall-case, 6 ft. Dispensing Screen, Perfumery Case and Desk, Cash Till; would separate; illustrations on request. E. BERG, LTD., 335 Old Street, London, E.C.1.

£135.—COMPLETE SET OF MAHOGANY FITTINGS.—14 ft. Drug Fitting with showcase, drawers, cupboards, cornice, shelving, etc.; 8 ft. Wall Case with sloping cases in centre; 7 ft. handsome Dispensing Screen with drawers and counter at back; 12 ft. glass-fronted Serving Counter with drawers and shelves at back; 4 ft. plate-glass Counter Case; Perfumery Showcase and Desk, Silent Salesman, 4 ft. all-glass Counter, plate-glass Circular Display Stand; ready for despatch. Sketches and particulars free on application. PERCY R. E. JOSEPHS, 68 Old Street, 1/5 Tilney Court, London, E.C.1. 'Phone: Clerkenwell 0929.

£170.—UNIQUE SET OF PHARMACY FITTINGS in solid Fumed Oak, comprising 2 x 10 ft. Display and Stock Fittings, all with sliding doors; 2 x 5 ft. Pharmacy Fittings with drug drawers, etc.; these are all sectionalised; 4 x 4 ft. Wall Showcases with sliding doors; 2 full-sized Plate-glass Mirrors; Glass Front Serving Counter with drawers, etc., at back; exceptionally handsome Dispensing Screen; Check Till. Really the finest looking set on the market, and ready for delivery and erection this day. Call and view. Can be adapted to any size shop. PHILIP JOSEPHS & SONS, LTD. 90/92 St. John Street, Clerkenwell, London, E.C.

LIMITED COMPANIES REGISTERED.—I have now been engaged in this work over 20 years, so you may rely that my experience in Chemist and other Companies (I take all trades) is hard to beat. Most reasonable and inclusive fee. Advice free. A. B. SLACK, 15 Christ Church Avenue, West Didsbury, Manchester.

EXCHANGE COLUMN.**WANTED.**

STRETCHER, folding Army-pattern; new or second-hand. Cannon, Chemist, Truro.

CAMWAL, LTD. Ordinary and Preference Shares, also Debentures. State amount offered. 270/15, Office of this Paper.

CARBOYS, three or four, perfect, about 18 in. high; also "Pharmaceutical Formulas" or P.J.F. Sheldrake, Chemist, Newark, Notts.

WOODEN FILTER PRESS for pharmaceutical syrups, six plates non-washing, complete with Pump, etc. 267/32, Office of this Paper.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books.

WHIFFEN & SONS LTD

INCORPORATING GEORGE ATKINSON & CO.

(ESTABLISHED 1654)

BRITISH MANUFACTURED

STRYCHNINE & SALTS



The manufacture of this Alkaloid in a perfectly pure and highly crystallised form was started by us in 1859, and we therefore claim to be the oldest British Manufacturers. Previous to 1859 it was not possible to obtain a commercial sample of Strychnine uncontaminated with Brucine or other adulterant.

FACTORIES - - BATTERSEA AND FULHAM.
OFFICES - Carnwath Road, Fulham, London, S.W.6.

TELEGRAMS: "WHIFFEN, LONDON."
TELEPHONE: PUTNEY 3993 (3 lines).

TO WHOLESALE & EXPORT TRADES.

ESTABLISHED 1846.

EXTRACTS
TINCTURES IN BOND
MERCURIAL OINTMENT



RANSOMS

RESINOIDS
OLEO-RESINS
MEDICINAL RESINS

WILLIAM RANSOM & SON, LTD.

MANUFACTURING PHARMACEUTICAL CHEMISTS,
Distillers of Essential Oils and Cultivators of Medicinal Plants.

HITCHIN, near LONDON.

Telephone: 95 HITCHIN.

For SHOPFITTINGS, SHOWCASES or SHOPFRONTS

Send enquiries to: **PERCY R. E. JOSEPHS** 68 Old Street, 1/5 Tilney Court,
125 Lever Street, LONDON, E.C.1

Plans, Sketches and Estimates or Illustrated Catalogue Post Free on Application.

The Association of Manufacturing Chemists

For the Protection of the Drug, Chemical, Perfumery, Photographic, Optical, Soap and Allied Trades. LIMITED

Parkin S. Booth, Managing Director.

Head Office: **KIMBERLEY HOUSE,**


HOLBORN VIADUCT, LONDON, E.C.1.

Phone: CITY 1261-2-3.


Status Enquiries, Debt Recovery, Valuations, Transfers, Investigations.
Sales, Purchases, &c.

LIVERPOOL: 2, BIXTETH STREET.

Subscription: £2 2 0 per annum.



"NORGINE" PRODUCTS.



NORMACOL

Intestinal Evacuant.

THE DEMAND for this product is increasing daily,
owing to our persistent medical propaganda. We
therefore invite your co-operation in carrying stock or
in promptly obtaining supplies.

Packings and Retail Prices. (P.A.T.A.)

Tins containing 4 ozs.	2/6	} Subject to usual discounts.
" " 16 "	..	..	..	9/0
" " 5 lbs.	..	..	..	40/0

H. R. NAPP LIMITED, 3 & 4, Clements Inn, London, W.C.2

